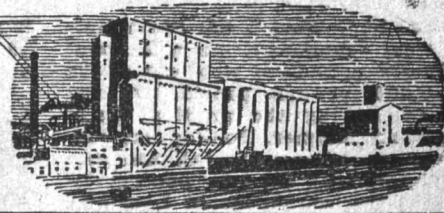


The Michigan BUSINESS FARMER



An Independent
Farmer's Weekly Owned and
Edited in Michigan



Vol. IX No. 17

MT. CLEMENS, SATURDAY, DECEMBER 24, 1921

\$1 PER YEAR

Grange and Gleaners for U. S. Ownership

Two Michigan Farm Organizations in Convention last week Adopt Progressive Resolutions

THE MICHIGAN State Grange in annual session at Flint, and the Gleaners in biennial session at Toledo, O., both adopted resolutions last week favoring government ownership of railroads. The action of the State Grange is contrary to the policy of the National Grange which has of late repeatedly declared itself "opposed to further government interference with business".

The annual Grange convention was one of the largest of recent years, the attendance being estimated at over eight hundred. Every county in the state but one was represented. There being no election of officers except to fill vacancies on the executive committee the convention was primarily devoted to the discussion of important state and national issues and the exemplification of the several degrees of the order.

In his annual address, Worthy Master A. B. Cook, of Owosso, stressed the position in which the farmer finds himself today and declared that there could be no true readjustment, no return of the farmer's purchasing power until all other people, manufacturers, bankers, lawyers, doctors, dentists, laborers, etc., had equalized their charges with the farmers'.

"Action to arouse public sentiment along these lines is very much in order just now," said Mr. Cook. "A thoroughly aroused public sentiment would do more than anything else to remind the ones who seemed glued to the rafters that the war is over and it is time to come down".

Specific recommendations made by Mr. Cook included a tax of 2 cents a gallon on gasoline, and the adoption of a state income tax.

Grange for Disarmament

Early in the session a resolution on disarmament was adopted amid prolonged cheers and applause, and forwarded to President Harding. The resolution follows:

"Whereas, wars are contrary to every principle of civilization and

"Whereas, 93 per cent of our present national budget goes to settle past war debts and create new forces for destruction, and

"Whereas, the present tax burden is almost too great for the people of all nations to bear.

"Therefore, be it resolved, by the Michigan State Grange assembled in its forty-eighth annual session that we heartily approve and urge the adoption of the plan for the limitation of armaments proposed by the United States now being considered at Washington, and

"Be it further resolved that the manufacture of all warlike implements, such as poisonous gas, submarines, etc., if forever discontinued would meet the approval of all sound-thinking and peace-loving peoples of the earth."

Bramble Hits Railroads

The address of O. H. Bramble, overseer,

STATE GRANGE RESOLVES:

1. That the government should own all public utilities, including the railroads.
2. That the government should own and operate the coal mines.
3. That a state trade commission be established similar to the federal trade commission.
4. That profiteering in food stuffs be made a penal offense.
5. That collective bargaining among farmers should be legalized.
6. That the government establish a storage system for farm products and make loans to farmers on such products at low rates of interest.
7. That no more tax-exempt bonds be issued.
8. That there be no restriction of the constitutional right of free speech, free press and free assembly.
9. That the lakes-to-ocean waterway be completed.
10. That our natural resources be better conserved under control of the government.
11. That the rate of interest on postal savings deposits be increased.
12. That the personnel of the boards of control of the federal reserve banks be changed to include farmers, laborers and business men.

on taxation, finance and transportation, made a decided hit with the delegates. His recommendations included the adoption of a state income tax law, prohibition of the issuance of tax exempt securities, reforming the federal reserve system, and repeal of

Gleaners Biennial Session

THE THIRTEENTH biennial session of the Gleaners which was held last week at Toledo, Ohio, was marked by the utmost harmony and optimism over the future. Grant Slocum, head of the order, compared conditions of today with those of the "panic" years of 1893 and 1907 and showed that they were no worse if as bad as in the previous years. He admitted that the farmer had been hard hit, but that conditions were on the upgrade. This sentiment prevailed throughout the entire session.

The convention concerned itself primarily with the business details of the insurance department, all amendments to the constitution being adopted unanimously. Reports of the officers showed a substantial gain in members and assets, the latter having reached the impressive figure of one and a half million dollars.

Resolutions adopted favored government ownership of the railroads, endorsement of the

the Esch-Cummins law, which he declared to be class legislation. "The government should own the railroads," said Mr. Bramble, "and lease them to private corporations at a fair rental". He urged that the local Granges require every candidate for state office to go on record regarding his attitude toward the income tax law.

Mr. Bramble's address will be published complete in an early issue of the Business Farmer.

A resolution asking for the abolishment of the state police was defeated. As long as the enemies of this costly military establishment offer no substitute to perform the work of the state police their efforts to destroy the organization will be of no avail. When the true lovers of law and order come forth with a program of law enforcement by local officials elected to do their job there will be some hope of convincing others that the state police are a needless expense.

Past Master George B. Horton offered a resolution in favor of returning to the economies of the early days of the Grange. Speaking in behalf of his resolution Mr. Horton said, "The tiller of the soil in Europe has become the lowest in the scale of society. There is danger that the American farmer with our increasing cost of government and decreasing receipts from his labor may go down to similar levels. We should oppose bonding schemes and forms of debt that mortgage the future of ourselves and our children." Despite vigorous opposition to the sentiment of the resolution, let by J. N. McBride, it was adopted. Mr. McBride thought the present was a time for hope and optimism. "We are at the turning of the road," he said. "This is a country of great resources, livestock is low in price and the present is a good time to re-stock the farm. To use one's credit is sometimes the highest wisdom".

The convention voted to concur in a resolution offered by Kent County Pomona Grange opposing home rule for counties. Sen. Thos. McNaughton of Grand Rapids, and Malcolm MacPherson of Lowell, member elect of the State Board of Agriculture were largely instrumental in putting the resolution through. The particular movement at which the resolution is aimed is the agitation for a commission form of government for counties.

Patron Taken From Helme

Jas. Helme, who has been the militant and picturesque editor of the Grange Patron, for many years is no longer at the helm. His free and frequent criticisms of others in the Grange have slowly builded an opposition which has been felt for several past state

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(Continued on page 15)

WOOL POOL TO CLOSE SOON

CLOSING OF the Michigan State Farm Bureau's 1921 wool pool is not far distant, by reason of a sale of 483,000 pounds of wool from the pool just recently, according to the State Farm Bureau. The wool was sold to an eastern clothing mill. The shipment amounted to about 25 carloads.

Since September 1 the Farm Bureau wool department has sold about 2,200,000 pounds of wool out of the 2,785,000 pounds pooled by the farmers during the grading campaign last summer. Pooling has continued throughout the fall and early winter, with farmers pooling direct to the warehouse in Lansing.

Current Agricultural News

Prices obtained by the Farm Bureau for the 483,000 pound shipment were as follows: Delaine 32 cents, half blood clothing 25 cents, fine clothing 26 cents, three-eighths clothing 25 cents, three-eighths combing 28 cents, buck and rejects 20 cents, braid 17 cents.

The barrier against foreign wool imports set up by the Emergency tariff, is making itself noticeable, says the Farm Bureau. With the foreign wool imports tide stemmed, American stocks of wool are being

cleaned up rapidly. Medium wools are in increasing demand.

The Farm Bureau wool pool is finding the marketing of the 1921 pool a decidedly different proposition than was that of marketing the 1920 pool. In the 1920 pool four-fifths of the wool came in after the wool market had slumped; the Farm Bureau with 3,500,000 pounds of wool on its hands was becalmed in a wool market that was dead for seven months. Beginning February 15 there was a little improvement and the Farm Bureau started marketing wool in difficult, nervous and sickly market. Between February 15 and September 1 the department not only marketed the 3,500,000 pounds of wool but in the meantime put over a summer grading campaign which landed 2,785,000 pounds of wool into the 1921 pool. With the end of the 1920 pool the Farm Bureau plunged into the marketing of the 1921 crop and in less than four months has marketed the major portion of the pool.

Lessons learned by the farmers in the care of sheep, the handling and preparation of fleeces for market, and the educational value of the summer grading campaign are to mean much to Michigan's sheep industry, according to the wool department. In addition to building a co-operative wool marketing organization that commands the attention of the big woolen mills, the farmers of the state have assured themselves of a square deal on their wool grades and full return on those grades. Marketing of that wool in large blocks has also been advantageous to the producer. Today the co-operative wool marketing business of Michigan seems assured of a profitable place in the markets of today and of the future.

MILK AND ALFALFA CAMPAIGN IN VAN BUREN COUNTY

A MILK AND Alfalfa Campaign, similar to the one carried on in Allegan county a short time ago, was put on in Van Buren county December 13 to 23. The campaign was in charge of County Agent W. C. Eckard who has the assistance of a corps of men from the agricultural college. The college men were O. E. Reed, head of the dairy department and H. E. Dennison and A. C. Baltzer of the dairy department, together with J. F. Cox, head of the farm crops department, assisted by H. C. Rather and D. F. Rainey.

Meetings were held around on the farms giving actual demonstration and talks of the ways to best build up high producing herds and care for them. Charts and other illustrative material was freely used to show the value of a high-quality sire and the increased profits thru a careful weeding out of the poor-yielding cows. An educational milk film was shown. Another film showing the tuberculin test in action and an illustrated lecture on the raising and value of alfalfa was also given at each of these meetings.—C. E. Johnson, M. A. C. Correspondent.

CLUB WORK MEANS BUSINESS FARMING

"C CLUB WORK among boys and girls of Michigan should aim to work out some of the definite problems of the farmers as well as train the members in the best farming practices," is the view of R. A. Turner, state leader of boys' and girls' clubs. "The clubs of certain districts which raise more of one crop than any other should aim to accomplish results, which will materially aid the farmers of that section," he says. For instance, the average acre yield of corn in Wisconsin has been raised 10 bushels in the last 10 years as a result of the boys clubs raising varieties of corn which are adapted to their sections of the state and carrying on a careful selection of seed corn each year, according to figures just sent from the Federal Department at Washington.

Corn raised by members of boys' corn clubs of Michigan showed up well in comparison with corn from

all over the country. At the International Corn Club Show at Baton Rouge, Burling Bradley of Charlotte, Eaton county, took first prize for yellow dent and third prize in white dent. At the International Hay and Grain Show, yellow dent raised by Joseph Warsop of Athens, Calhoun county, took second place in its class and Quentin Friedhof's yellow dent raised at Warren, Macomb county was awarded third place.—C. E. Johnson, M. A. C. Correspondent.

FRANCE FIXES FLOUR PRICE

A NEW BILL has just been introduced in the French Chamber of Deputies, which aims at establishing a definite relation between the price of wheat, the price of flour and the price of bread.

The Bankers Trust Company, of New York, is advised by its French Information Service, that according to the terms of this proposed law, the prefect of each department in France would be authorized, after consultation with the competent authorities, to fix the price of flour in accordance with the cost of wheat. Any violation of this law, if it is voted, would be punished by a fine and imprisonment varying from 5 days to 6 months.

The proposal of this law was caused by the fact that although in the last few months, owing to an exceptionally good harvest, the price of wheat decreased considerably, there was no corresponding decrease in the price of flour.

Up to the end of last July, wheat was under state control and was sold at a fixed price of 100 francs per quintal (220.5 lbs.). A few weeks later, after the harvest, when the market became free, the price went down to 70 francs, a little later to 65 francs and in some regions even to 60 francs a quintal.

Under normal conditions, the price of flour and that of bread should have gone down to a corresponding extent, but while the decrease in cost of wheat varied from 26 per cent to 28 per cent, the price of flour only decreased by 22 per cent and that of bread by 19 per cent.

FERTILIZER INTERESTS AFTER FREIGHT RATE REDUCTIONS

FARMERS generally are interested in the effort being made by the fertilizer industry to obtain reductions in freight rates on shipments of its products.

Through its Traffic Committee, the National Fertilizer Association has submitted to the Trunk Line Association a statement of conditions, which contains some striking information and statistics. The average of the prices of five representative brands, varying in analysis from 16 per cent acid phosphate to a 4-7-5 mixture, shows that, although they advanced from \$31.30 in 1916 to \$47.10 in 1918, the entire increase has been wiped out and that present selling prices are below those of five years ago.

That this is true, despite the fact that freight rates are still at the peak, simply indicates that a full return to pre-war levels hinges on an immediate, substantial reduction in the cost of transportation.

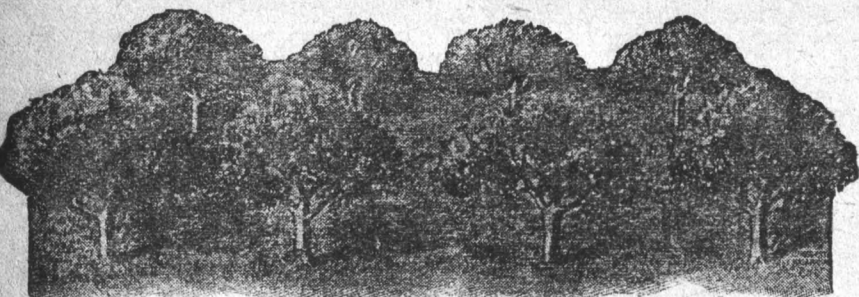
SYRUP MAKERS TO MARKET THROUGH FARM BUREAU

The Michigan Maple Syrup Makers' Association, meeting at State Farm Bureau headquarters, December 13, decided to market at least a third of their 1922 run through the State Farm Bureau marketing department. Syrup will be marketed in standard containers and under an appropriate Michigan name. The maple syrup makers also elected officers as follows: President, A. M. Bullock, Lapeer; vice-president, D. G. Crouk of Bellevue; J. Lee Morford of Lansing is to act as secretary for the association. Directors elected were: D. G. Crouk, P. L. Buttrick of East Lansing, V. E. Johnson of Vestaburg.

Still Missing

Johnny—"Say, paw, I can't get these 'rithmetic examples. Teacher said somethin' 'bout findin' the great common divisor."

Paw (in disgust)—"Great Scott! Haven't they found that thing yet? Why, they were huntin' for it when I was a boy."—The Christian Evangelist, St. Louis.



Will You Let us Help You Start This Fine Home Apple Orchard?

Think of the value of an apple orchard of eight thrifty, healthy, trees. Apples without stint, from your own trees, through early and late summer, fall and winter! Think of the beauty of eight apple trees in bloom around your home, — each tree a billowy mass of fragrant, coral blossoms! Think how quickly these four splendid varieties grow, how soon, — just a few years — when they will be yielding bushel after bushel of the finest apples grown.



Yellow Transparent



Wealthy



Jonathan



Genuine Delicious

These Eight Fine Apple Trees are Easily and Quickly Grown

We will send you, postpaid, our Home Orchard Collection of Eight Choice Apple Tree Grafts, two each, of Four Splendid Varieties. They are produced by a method that insures every good quality of rapid growth, early maturity and heavy yield, if they are given the care they deserve. From selected trees, the bright new branches, called "scions," are cut off, and carefully grafted to an apple root. After being wrapped with waxed twine, it looks like the picture to the left, and is ready to plant.

We will Send you Two of Each of These Four Grand Varieties!

TWO GENUINE DELICIOUS. The finest winter apple grown. Of wonderful beauty, flavor and aroma.
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TWO JONATHAN. Handsome, sweet, juicy, deep red apples in abundance, every year.
TWO WEALTHY. One of the most profitable fall varieties on account of its immense yield of high quality apples.

All Sent POSTPAID! and Guaranteed to Live and Grow!

We want every one of our readers to have a Home Apple Orchard of Eight Splendid Trees.

We want to interest you in fruit growing, because there has never been nearly enough really good apples grown in this country to half go around. Every garden should have a few apple trees, and we will help you plant yours!

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All For
A Dollar
Bill

exactly as described above, sent postpaid and guaranteed to reach you in perfect condition and to grow to your satisfaction.

GROWING GRAFTED APPLE TREES
Our complete, illustrated instructions for the planting and care of the apple orchard.

—and THE FRUIT BELT

All For
A Dollar
Bill

Written by and for experienced farmers, it will help you grow your orchard, your berries and vegetables, your beans, potatoes and other "Money Crops." It's the exponent of the business of making the farm pay annual cash dividends.

A practical, illustrated fruit and vegetable magazine every month for 2 years. 24 Big Illustrated Numbers.

Just send your name, address and a dollar bill, and we will send this entire offer—The Apple Orchard, the Instructions for Planting, and the Magazine for Two Years.

Use this Coupon Just write Name and Address below

THE FRUIT BELT, GRAND RAPIDS, MICH.

GENTLEMEN: I enclose \$1.00. Send me The Fruit Belt for one year. At the proper planting time, send me The Home Orchard Collection, Postpaid, with the Illustrated Planting Instructions.

Name

Town R.F.D. No.....

IMPORTANT! This Home Orchard Collection is GUARANTEED to reach you and make satisfactory growth, or it will be replaced.

An Analysis of the Four Essentials of Farming

Production, Selling, Buying and Financing are all Necessary Steps in Successful Farm Business

THE BUSINESS of the farmer can be divided into the following divisions:

1. The production of crops, livestock and livestock products.
2. Selling the products of the farm.
3. Buying equipment, supplies and products not produced on the farm.
4. Financing the operations of the farm.

The first division given above has been generally called production and includes all those activities necessary to the preparation of the soil, sowing the seed, tending the crop, gathering the harvest, raising livestock and the production of livestock products. In past years there has been a great deal of activity along the lines of increasing production. This is as it should be. The first essential requirement of society is that there be goods in sufficient abundance to satisfy the wants of the masses. Interest in the improvement of agriculture was first directed along the lines of increasing production. The aim was, as the saying goes, "to make two blades of grass grow where one grew before".

The U. S. Department of Agriculture, agricultural colleges, experiment stations and other agencies who endeavored to help the farmer directed their attention toward this increased production. Agricultural colleges have been teaching their students agronomy, soil chemistry, horticulture, animal husband-

By J. T. HORNER

Department of Economics, Mich. Agricultural College

EDITOR'S NOTE: As announced some time ago Dr. J. T. Horner, who recently accepted a position with the Department of Economics at the M. A. C. has agreed to write a series of articles for the Business Farmer upon agricultural economic conditions. In the accompanying "analysis of farm business," he briefly reviews the economic phases of agriculture and indicates what the nature of his articles will be. He will not talk very much upon theory, but will have a good deal to say about existing facts and we are sure that a discussion of these facts by one who is qualified to discuss them will give us all a clearer idea of the obstacles and opportunities of economic reform in the farming business.

ry, dairy husbandry and allied subjects, directing attention principally from the standpoint of production. Very little attention has been directed toward the other activities of the farm. In the beginning of the agricultural extension work the county agent's time was devoted exclusively to the problems of increasing farm yields. This movement was of course in harmony with the general views of the time that production was the great aim to work toward. The emphasis on production was natural and no criticism of it is meant here. In the improvement of agriculture the first step was naturally in connection with production. You have no problem

of selling until you have something to sell. The study of production precedes all other subjects as naturally as the sowing of the seed precedes the harvest. Within the past few years production practices have been greatly improved and other problems are now pressing the attention of the farm community.

Referring back to the introductory statement we see that while production is the first fundamental of agriculture it is only a part. Adequate attention has not been given to the other three essentials. The business side of the farm has not received the proper attention and consideration. It is only in recent years that Agricultural colleges have turned their attention to the study of the problems of buying, selling and financing, and more recently have the extension divisions been dealing with such problems. There is now general recognition that a study of buying, selling and financing activities is essential and that the success of the farmer depends as much upon these things being done well as does the success of the business concern depend upon a well guided and economically managed sales department, buying department and financial management department. It is the height of folly to produce goods without thought of how they are to be sold. A leading accountant of (Continued on page 12)

Michigan Improved Live Stock Breeders to Meet at M. A. C. Jan. 10th

THE THIRTY-SECOND Annual meeting of the Michigan Improved Live Stock Breeders' and Feeders' Association to be held at the Michigan Agriculture College, January 11 and 12, 1922, gives promise of being one of the best meetings the association has ever held. Already several speakers of national reputation have consented to appear on the program.

The meetings will open with a Holstein-Friesian sale on Tuesday, January 10. The Guernsey breeders will likewise hold a meeting on the evening of January 10. Both of these associations will hold a banquet Tuesday night.

On Wednesday, January 11, will be held meetings of the following organizations:

Michigan Horse Breeders' Ass'n; Swine Breeders' Ass'n; Sheep Breeders' Ass'n; Shorthorn Breeders' Ass'n; Hereford Breeders' Ass'n; Aberdeen-Angus Breeders' Ass'n; Red Polled Breed-

ers' Ass'n; Holstein Friesian Breeders' Ass'n; Guernsey Cattle Club; Jersey Cattle Club; Poland China Breeders' Ass'n; Berkshire Breeders' Ass'n; Chester White Breeders' Ass'n; Hampshire Swine Breeders' Ass'n; Duroc Jersey Breeders' Ass'n; Oxford Down Sheep Breeders' Ass'n.

Speakers of national reputation who will appear on programs this day are:

Ex-Governor Loudon of Illinois, President of the National Holstein-Friesian Ass'n; W. J. Carmichael of Chicago, Secretary of the National Swine Growers' Ass'n; E. C. Stone, Peoria, Illinois, Secretary of American Hampshire Swine Breeders' Ass'n; Mr. C. J. Fawcett, Chicago, head of the Wool Division of the American Farm Bureau Federation; Mr. Wayne Dinsmore, Chicago, Secretary of Horse Publicity Ass'n of America; Mr. J. L. Tormey, Chicago, Field Representative of the American Shorthorn Breeders' Ass'n; Mr. Chas. Gray, Chicago, Secretary of the American Aberdeen Angus Breeders' Association.

Following the breed meetings a general meeting of all organizations will be held at 5

P. M. This meeting will be addressed by Ex-Governor Loudon and Mr. Wayne Dinsmore and will be followed by a banquet.

The general meeting on Thursday, January 12, will be addressed by Mr. H. A. Moehlennah, President of the Investors Finance Corporation, Milwaukee, Wisconsin; Mr. W. M. McFadden, Secretary of the American Poland China Breeders' Association; Mr. David Friday, President of the Michigan Agricultural College; Mr. John Doelle of the State Board of Agriculture; and Mr. J. G. Brown, President of the Federated Farm Associations of Indiana.

After the meetings on Thursday evening a draft colt show and judging demonstration will be staged by the Michigan Horse Breeders' Association in the judging pavilion, to which every one is invited.

The meetings will close with a sale of draft horses on Friday, January 13.

Corn Winner at International Tells Business Farmers "How He Did It"

By ED. N. LUX

I AM ONLY too glad to give the readers of the Business Farmer the history of my championship ear of corn. The field in which this ear, as well as many other prize winners, grew is composed of 12 acres and the soil is about two-thirds clay. The previous year the field had a good stand of clover on it and was used for pasture. I plowed it from six and a half to seven inches deep during the month of March using a tractor. As soon as the plowing was completed I proceeded to go over the ground with a drag. On the 10th of May I broadcasted 250 pounds of acid phosphate to the acre, then I double disced both ways of the field using a light drag behind the disc. I planted the corn with the rows 42 inches apart and a distance of 18 inches between hills, using 100 pounds of 2-12-3 in the row and covering the seed to the depth of about two inches.

SINCE THE high honors in the corn at the International Grain and Hay Show could not come to Michigan business farmers, we are right glad that they went to business farmers in the adjoining states of Indiana and Illinois. Ed. N. Lux, of Waldron, Ind., showed the best single ear of the entire show, and in response to a special request from the M. B. F., he tells "how he did it" in the accompanying article. Other winners at the International have promised to write their experiences for the benefit of the Business Farmer readers. These will appear in later issues.—Editor.

The seed I used was of the Johnston county variety, disease free. I had a wonderful stand. I have been testing all my corn for disease for the past three years, and I have been breeding the corn for 15 years, and my one aim has been to increase yield, and at the

same time have early maturing corn. In this I have been successful.

Before the corn came through the ground I went over the field with cultipacker and rotary hoe behind. After the corn was up I used same again twice, one week apart. I used a tractor for all these operations. Following this I cultivated my corn 4 times. The first time about 3 1-2 inches deep, then shallow cultivations.

The latter part of September I began selecting seed taking each row separately and placing the seed in seed house. While I was doing this I selected my prize ears. My corn averaged 75 bushels per acre. The field averaged 90 bushels. Had I used manure on said field it would have averaged 100 bushels per acre easily. I owe my success to my untiring efforts in corn breeding and especially to using disease free seed.

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An Independent Farmer's Weekly Owned and Edited in Michigan

SATURDAY, DECEMBER 24, 1921

Published every Saturday by

THE RURAL PUBLISHING COMPANY, Inc.

Mt. Clemens, Michigan

Represented in New York, Chicago, St. Louis and Minneapolis by the Associated Farm Papers, Incorporated

GEORGE M. SLOCUM PUBLISHER
FORREST A. LORD EDITOR

ASSOCIATES:
Frank R. Schalck Assistant Business Manager
E. R. Walker Circulation Manager
M. D. Lamb Auditor
Henry F. Hopkins Plant Superintendent
Milton Grinnell Managing Editor
Grace Nellis Jenney Farm Home Editor
H. H. Mack Market and Live Stock Editor
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ONE YEAR (52 Issues) \$1; TWO YRS (104 Issues) \$1.50

THREE YRS. (156 Issues) \$2; FIVE YRS. (260 Issues) \$3.00

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Entered as second-class matter, at post-office, Mt. Clemens, Mich.

Old and New Year Greetings

WITH THE ending of the old year and the beginning of the new, the Business Farmer once more extends its heartiest good wishes to those who read these columns. Many of you we know personally. Most of you we have never seen. But whether enjoying your personal acquaintance or not, we like to feel that we have your friendship. It is not possible to talk to you week in and week out and to read the thousands of letters that come from you without feeling the deepest sort of respect and friendship for you. It seems as if we know you as well as though we had lived neighbors with you for years. As we sit down to the Christmas dinner and as we watch the old year out and the new year in, we shall be thinking of you. Though you are not here with us today; though we cannot clasp hands in the fervor of an affection which we hope is mutual, we can at least think kindly of each other. Realizing the bitter disappointments and the hard struggles with which many of you have been confronted the past year, we can only think of you in terms of the utmost sympathy. The past year has not been overkind to any of us, but it seems that the farmer has special cause for grievance. It is no canting hypocrisy, no desire to please which makes us say this. We are sincere. We believe it. So believing we have compassion, and we resolve that so far as our own meagre efforts shall go, we shall not rest this coming year or the other years to follow, until these grievances have been righted and these burdens lightened.

Figures That Lie

IT WILL surprise many farmers to learn that "statistics gathered from ten thousand farmers in the United States shows *** an average return on capital invested of nine and a half per cent." Hands up, all you farmers who earned nine and a half per cent on your investment last year? What's the trouble? Must be the investigator missed your farm!

But let's read a little farther, "This makes no allowance for the farmer's labor above his house rent and what his farm furnished towards his family's living." Well, well, that makes all the difference in the world. So this nine and a half per cent includes the farmer's daily wages. It's no such a big piece of news after all.

But the interesting thing about the statement is the peculiar psychology which prompted a daily paper to put a bold head

on the face of this article, reading: "Capital in farms earns nine per cent." It doesn't earn nine per cent and it never did earn 9 per cent and under present conditions it can't earn nine per cent. But some dub of a reporter who doesn't know any better writes an article about it and an editor who couldn't tell the difference between a jackass and a jack-rabbit tacks on a head that is a lie from beginning to end and deceives a lot of good people who don't take the time to read the complete article. And so we have consumers cursing the farmers as profiteers and farmers cursing the consumers as block-heads for not knowing more about the losses and profits of farmers, and the Business Farmer is besieged with letters bewailing the injustice which is being done to farmers by the publication of such misleading statements. We don't blame Mrs. Bonnell of Shaftsbury for sending us the article with her comments as follows:

"It really is interesting to see the efforts that are made to create and maintain a state of misunderstanding between the ultimate consumer and the farmer. The average city man believes it is the farmer who is demanding and getting prices for food products which are little short of highway robbery and the misunderstanding is due to just such false statements as the article I enclose. Please refute this absurd head-line. Is there no possible way known to keep such misleading and absolutely false statements from our daily papers."

No, dear madaam, there is no way. So many of our great newspapers cannot afford to hire men with brains. They must depend upon underfed, under-brained, subnormal, cigarette-smoking boys to handle the important details in the dissemination of news. If an occasional misstatement creeps in about the farmer, what matters? It means no money out of the pockets of the newspaper owner.

Of course, writing of the profits of any great corporation, any child would know better than to include salaries and wages as a part of the "earnings." If he didn't he'd have a hard job beating the boss' boot to the back-door. But that's different. Corporations advertise; farmers do not.

Some Income Tax Figures

NEXT YEAR Michigan citizens will be permitted to vote on an amendment to the constitution authorizing the legislature to levy a tax against incomes. Some farmers have expressed their doubt as to the advantages of such a law. They have been promised relief so many times from the burden of taxes by the adoption of some new tax scheme that they look with suspicion upon all such promises.

It would neither be wise nor true to say that an income tax law would relieve all land from the payment of taxes. Some day a means may be devised whereby taxes can be levied and successfully collected against net income in lieu of all other kinds of taxes, but that day is not in the immediate future. But a state income tax should materially lessen the tax on farm lands providing state expenditures do not increase so much as to eat up the additional revenue. In providing new sources of taxation it will be well for the people and the legislature to take the matter of expenditures very seriously into consideration, for we are quite too prone, both as individuals and a government, to increase our expenditures in proportion to increases in our income.

There are certain facts in connection with the amount of taxable income in this state which should tend to give the over-burdened taxpayer greater confidence in the proposed income tax law. The average federal income tax paid in 1919 was \$308, or \$62 more than the average for the entire country. Total taxable income in this state for the year 1919 was \$665,475,193, while the actual tax paid was over \$55,000,000. In 1919, 181,662 persons in Michigan paid an income tax. The schedules of a state income tax law would probably be considerably less than those of the national law. However, there seems to be no reason why the legislature cannot draft a fair, reasonable and satisfactory law which will yield from \$7,000,000 to \$10,000,000, or approximately one-half of the present annual state budget.

The Grange is Safe

IF ANYONE has had any doubts about the ability of the Grange to withstand the competition of newer farm organizations, they must have gone glimmering since the recent annual session of that order. A year ago we heard men arguing on every side that the days of the Grange were numbered. "It has outlived its usefulness," they said. "It must make way for more progressive farm organizations." But it was a case of holding the funeral before the victim had expired.

The Grange is not dead. Nor will it die. It is not tottering toward the grave upon semile legs. It is as active and alert as a two-year old colt, and it did a fine piece of prancing over at Flint the other day. The Grange has passed through its crisis. It is stronger today than it was a year ago, and it shall continue to grow in stature, strength, power and majesty.

A sick man lay dying. His poor wife, knowing that the end was nigh, and wishing to have a successful funeral, was boiling a ham with which to feed the mourners upon their return from the cemetery. The tempting odor of the boiling meat came to the nostrils of the sick man. "Mary," he said, "I smell ham. Give me a ham sandwich." "Nay, nay," said the thrifty wife, "the ham is for the funeral."

Pass the ham. The Grange, heaven be praised, still lives.

Under the Doctor's Care

THE BUSINESS Farmer's big rotary press has been under the "doctor's" care for the past couple weeks and we have been obliged to issue the paper under many difficulties. As a result the printing has been poor and the paper has been late. But we know that our readers will bear with us until the press "recovers" which the doctor says will be some time next week.

Newspaper presses are like people. If they are worked too hard they wear out and break down. Each week the cylinders of our big rotary perform hundreds of thousands of revolutions in order to transform printing surfaces, ink and white paper into the finished Business Farmer. It never has a vacation nor a rest of more than a few hours at a time. So it happens in the lives of all good presses, the cylinder bearers become worn and the boxes need replacing. Though we have taken the best of care of our rotary it has fallen prey to the germs of wear and tear, and we found it necessary to remove two of the big cylinders for repairs and transfer our printing to another "deck" of the big press. When the repairs are made the press will again be as good as new and ready to serve faithfully for many more years grinding out the Business Farmer in ever increasing volume.

Is Germany Recovering?

ALL DOUBTS that Germany is fast getting on her feet and will soon take her old position of dominance in the commerce of Europe must vanish before the increasing abundance of evidence from that country telling of the revival of industry. Commerce reports refer to the delivery of the first installment of 700 locomotives which were ordered from Germany by the Russian Soviet Government; of the great displays of German made automobiles and other machinery at both local and international fairs; of the activities of German exporting firms reflected in an enormous increase in the exports of manufactured goods. You can't keep Germany down. The courage and the indomitable will with which the people of Germany are working out from under the heaviest burdens ever placed upon mortal beings should be an inspiration and lesson to the rest of the people of the world.

A small town telephone manager protests against the accusation that his operators read novels on duty. They don't. They don't have to.—Chicago Journal of Commerce.

(Continued from last week)

IN A flash the club he held was over his head; it swung thru the air with the power of a giant arm behind it and was launched straight at Miki. Had it struck squarely it would have killed him. The big end of it missed him; the smaller end landed against his neck and shoulder, driving him back into the gloom with such force and suddenness that the man thought he had done for him. He called out loudly to Makoki that he had killed a young wolf or a fox, and dashed out into the darkness.

The club had knocked Miki fairly into the heart of a thick ground spruce. There he lay, making no sound, with a terrible pain in his shoulder. Between himself and the fire he saw the man bend over and pick up the club. He saw Makoki hurrying toward him with another club, and under his shelter he made himself as small as he could. He was filled with a great dread, for now he understood the truth. These men were not Challoner. They were hunting for him—with clubs in their hands. He knew now what the clubs meant. His shoulder was almost broken.

He lay very still while the men searched about him. The Indian even poked his stick into the thick ground spruce. The white man kept saying that he was sure he had made a hit, and once he stood so near that Miki's nose almost touched his boot. He went back and added fresh birch to the fire, so that the light of it illumined a greater space about them. Miki's heart stood still. But the men searched farther on, and at last went back to the fire.

For an hour Miki did not move. The fire burned itself low. The old Cree wrapped himself in a blanket and the white man went into his tent. Not until then did Miki dare to crawl out from under the spruce. With his bruised shoulder making him limp at every step he hurried back over the trail which he had followed so hopefully a little while before. The man-scent no longer made his heart beat swiftly with joy. It was a menace now. A warning. A thing from which he wanted to get away. He would sooner have faced Oochak again, or the owls, than the white man with his club. With the owls he could fight but in the club he sensed an overwhelming superiority.

The night was very still when he dragged himself back to the hollow log in which he had killed the rabbit. He crawled into it, and nursed his wounds through all the rest of the hours of darkness. In the early morning he came out and ate the rest of the rabbit.

After that he faced the north and west—where Neewa was. There was no hesitation now. He wanted Neewa again. He wanted to muzzle him with his nose and lick his face even though he did smell to heaven. He wanted to hear him grunt and squeal in his funny, companionable way; he wanted to hunt with him again, and play with him, and lie down beside him in a sunny spot and sleep. Neewa, at last, was a necessary part of his world.

He set out.

And Neewa, far up the creek, still followed hopefully and yearningly over the trail of Miki.

Half way to the dip, in a small open meadow that was a glory of sun, they met. There was no very great demonstration. They stopped and looked at each other for a moment, as if to make sure that there was no mistake. Neewa grunted. Miki wagged his tail. They smelled noses. Neewa responded with a little squeal, and Miki whined. It was as if they had said,

"Hello, Miki!"

"Hello, Neewa!"

And then Neewa lay down in the sun and Miki sprawled himself out beside him. Once more they were chums—and they were happy.

CHAPTER ELEVEN

IT WAS the Flying-Up Moon—deep and slumbering midsummer—in all the land of Keewatin. From Hudson Bay to the Athabasca and from the Hight of Land to the edge of the Great Barrens, forest, plain and swamp lay in peace and forget-

Nomads of the North

A STORY OF THE GREAT OUTDOORS

By JAMES OLIVER CURWOOD

Michigans Own and Americas Foremost Author of Wild Life Romance

SYNOPSIS

IT IS SPRING and in the northland Neewa, a black bear-cub, and his mother, Noozak, are starting on a journey to their feeding grounds. Challoner, a Hudson Bay Co. factor, discovers the tracks of the bears. He has a pup, Miki, with him, which he is talking to his sister, and he decides he would like to secure the cub to give to her also. He meets up with the bears, kills Noozak and secures Neewa. The next morning Challoner puts Miki and Neewa in the front end of his canoe and starts down the river. As they are nearing a waterfall the pup and the cub fight and roll out of the canoe. Challoner thinks the two will be killed but, unknown to him they arrive at the foot of the falls still alive. Coming out on the shore they start off through the woods. Neewa discovers a wasp's nest and tears it down. Neewa and Miki are badly stung but continue on their journey. They are attacked by a great owl but escape. They watch wolves kill a caribou and when the wolves leave they feast on the remains. With full stomachs they have a play and upon returning find two owls that have taken possession of the carcass are being attacked by a wolf. Neewa continues to feast on the carcass of the caribou and Miki leaves him to seek fresh meat. Miki discovers the camp of two men and investigates.

fulness under the sun-glowing days and the star-filled nights of the August Mukoo-sawin. It was the breeding moon, the growing moon, the moon when all wild life came into its own once more. For the trails of this wilderness world—so vast that it reached a thousand miles east and west and as far north and south—were empty of human life. At the Hudson Bay Company's posts—scattered here and there over the illimitable domain of fang and claw—had gathered the thousands of hunters and trappers, with their wives and children, to sleep and gossip and play through the few weeks of warmth and plenty until the strife and tragedy of another winter began. For these people of the forests it was Mukoo-sawin—the great Play Day of the year; the weeks in which they ran up new debts and established new credits at the posts; the weeks in which they foregathered at every post as at a great fair—playing and making love, and marrying, and fattening up for the many days of hunger and gloom to come.

It was because of this that the wild things had come fully into the possession of their world for a space. There was no longer the scent of man in all the wilderness. They were not hunted. There were no traps laid for their feet, no poison-baits placed temptingly where they might pass. In the fens and on the lakes the wildfowl squawked and honked unfearingly to their young, just learning the power of wing; the lynx played with her kittens without sniffing the air for the menace of man; the cow moose went openly into the cool water of the lakes with their calves; the wolverine and the marten ran playfully over the roofs of deserted shacks and cabins; the beaver and the otter tumbled and frolicked in their dark pools; the birds sang, and through all the wilderness there was the drone and song of Nature as some Great Power must at first have meant that Nature should be. A new generation of wild things had been born. It was a season of Youth, with tens of thousands and hundreds of thousands of little

children of the wild playing their first play, learning their first lessons, growing up swiftly to face the menace and doom of their first winter. An the Beneficent Spirit of the forests, anticipating what was to come had prepared well for them. Everywhere there was plenty. The blueberries, the blackberries, the mountain-ash and the saskatoons were ripe; tree and vine were bent low with their burden of fruit. The grass was green and tender from the summer rains. Bulbous roots were fairly popping out of the earth; the fens and the edges of the lakes were rich with things to eat, overhead and underfoot the horn of plenty was emptying itself without stint.

In this world Neewa and Miki found a vast and unending contentment. They lay, on this August afternoon, on a sun-bathed shelf of rock that overlooked a wonderful valley. Neewa, stuffed with luscious blueberries, was asleep. Miki's eyes were only partly closed as he looked down into the soft haze of the valley. Up to him came the rippling music of the stream running between the rocks and over the pebbly bars below, and with it the soft and languorous drone of the valley itself. He napped uneasily for half an hour and then his eyes opened and he was wide awake. He took a sharp look over the valley. Then he looked at Neewa, who, fat and lazy, would have slept until dark. It was always Miki who kept him on the move. And now Miki barked at his gruffly two or three times, and nipped one of his ears.

"Wake up!" he might have said. "What's the sense of sleeping on a day like this? Let's go down along the creek and hunt something."

Neewa roused himself, stretched his fat body, and yawned. Sleepily his little eyes took in the valley. Miki got up and gave the low and anxious whine which always told his companion that he wanted to be on the move. Neewa responded, and they began making their way down the green slope into the rich bottom between the two ridges.

They were now almost six months of age, and in the matter of size had

MUSINGS OF A PLAIN FARMER

THIS NORTHWESTER is not just to my liking this morning. I'll scurry to the stable for protection. The pet rabbit is out for an airing.

Hogs are squealing. The more I feed them the worse they squeal. I am not a good hog man, therefore, I don't keep many hogs.

Stable smells warm. There is a yearling loose. It's a habit with her. A person might call her a registered pest.

Horses are pawing for oats, cows mooing for silage. Doing chores is a kind of orgy. And yet they are necessary. This stock depends on me for sustenance and I in turn depend on them.

I guess we are all linked together on this little, old world. Of course some links are larger than others

but we are linked just the same; yes sir.

I have a beaten path to the milk stand. But I presume no particular person is interested in that, except the hauler.

"Good morning," says a farmer from another town, "how are things over here?"

"Tolerable," says I, "tolerable. How are things in your locality?"

"O-o-o!" says he, "awful! awful! A great many farmers will be put on the road this fall."

"So? And what will they do once they are on the road?" says I. "Haul gravel for the work on the grade?"

"I don't know," said he and stepped on the starter.

"Who was that?" asked Mrs. B, as I stepped in the house.

"That? Why that was Mr. Gloom."—A. F. Ballard.

nearly ceased to be a cub and a pup. They were almost a dog and a bear. Miki's angular legs were getting their shape; his chest had filled out; his neck had grown until it no longer seemed too small for his big head and jaws, and his body had increased in girth and length until he was twice as big as most ordinary dogs of his age.

Neewa had lost his round, ball-like cubbiness, though he still betrayed far more than Miki the fact that he was not many months lost from his mother. But he was no longer filled with that wholesome love of peace that had filled his earlier cubhood. The blood of Soominitik was at last beginning to assert itself, and he no longer sought a place of safety in time of battle—unless the grimness of utter necessity made it unavoidable. In fact, unlike most bears, he loved a fight. If there were a stronger term at hand it might be applied to Miki, the true son of Hela. Youthful as they were, they were already covered with scars that would have made a veteran proud. Crows and owls, wolf-fang and fisher-claw had all left their marks and on Miki's side was a bare space eight inches long left as a souvenir by a wolverine.

In Neewa's funny round head there had grown during the course of events, an ambition to have it out some day with a citizen of his own kind; but the two opportunities that had come his way were spoiled by the fact that the other cubs' mothers were with them. So now, when Miki led off on his trips of adventure, Neewa always followed with another thrill than that of getting something to eat, which so long had been his one ambition. Which is not to say that Neewa had lost his appetite. He could eat more in one day that Miki could in three, mainly because Miki was satisfied with two or three meals a day while Neewa preferred one—a continuous one lasting from dawn until dark. On the trail he was always eating something.

A quarter of a mile along the foot of the ridge, in a stony coulee down which a tiny rivulet trickled, there grew the finest wild currants in all the Shamattawa country. Big as cherries, black as ink, and swelling almost to the bursting point with luscious juice, they hung in clusters so thick that Neewa could gather them by the mouthful. Nothing in all the wilderness is quite so good as one of these dead-ripe black currants, and this coulee wherein they grew so richly Neewa had pre-empted as his own personal property. Miki, too, had learned to eat the currants; so to the coulee they went this afternoon, for such currants as these one can eat even when one is already full. Besides, the coulee was fruitful for Miki in other ways. There were many young partridges and rabbits in it—"fool hens" of tender flesh and delicious flavor which he caught quite easily, and any number of gophers and squirrels.

Today they had scarcely taken their first mouthful of the big juicy currants when an unmistakable sound came to them. Unmistakable because each recognized instantly what it meant. It was the tearing down of currant bushes twenty or thirty yards higher up the coulee. Some robber had invaded their treasure house, and instantly Miki bared his fangs while Neewa wrinkled up his nose in an ominous snarl. Soft-footed they advanced toward the sound until they came to the edge of a small open space which was as flat as a table. In the center of this space was a clump of currant bushes not more than a yard in girth, and black with fruit; and squatted on his haunches there, gathering the laden bushes in his arms, was a young black bear about four sizes larger than Neewa.

It is a pleasure to renew my subscription and I will send the name of one of my good neighbors. We realize the farmer needs all help he can get in every way possible.—G. H. Kelly, Van Buren County, Michigan.

Have no complaint or corrections to offer, but I do like to say that we all appreciate the value of your paper as a most valuable farm journal. Would be lost without it.—John Nasson, Charlevoix County, Michigan.

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VALUE OF BRAN AS MILK PRODUCER

What is the value of bran compared with other feeds for milk production?—J. M., Durand, Mich.

I do not know what other feeds you have in mind, but bran is a great dairy feed and is particularly valuable for two reasons. First, because it contains a goodly percentage of protein, according to the analysis given in Henry's Feeds and Feeding, published by the Henry and Morrison Company, Madison, Wisconsin, an authority on this subject. Wheat bran contains 9.2 per cent digestible protein as compared with corn which contains only 6 per cent. Second, bran is of great value when mixed with other feeds because it lightens and gives the dairy ration a good mechanical condition. We want a dairy ration to be rather light so that it can be easily masticated and digested. If a ration packs together, like bolted corn meal, it is pretty heavy for anything to digest.—O. A. Reed, Professor of Dairy Husbandry, M. A. C.

COWS BELONG TO A

A rent a farm from B on the 50-50 proposition. B was to furnish the horses and farming implements and to furnish half the seed and pay half of all expense and furnish half of the cows. A didn't have any cows. B gave a bankable note and A signed the note too. The place will not produce enough so that A can pay for the cows from what he raises on the place above feed for the stock. Can B keep A from taking the cows and moving on another place where A can pay for the cows? Can B hold the cows any way at all? I have paid the interest on the money ever since I bought them.—A Subscriber, Plymouth, Mich.

If A bought the cows in his own name and B simply endorsed his note with the understanding that the cows belong to A then A may remove them from the place and take them wherever he wishes unless he has given some kind of a contract or agreement that he would not remove them from the place; that is, if the cows were sold to A regardless of the manner of paying then they would be the property of A and he would have a right to handle them the same as any other property that he might own.—Legal Editor.

CERTIFIED POTATO SEED

I noticed you had an article in the M. B. F. about certified seed potatoes, which I know nothing about, but would like to know. Can you refer me to someone who can tell me about them? Also when I can get some seed.—J. P., Adrian, Mich.

Seed potatoes are inspected and certified by the Michigan Potato Producers' Ass'n in co-operation with the horticultural department of the M. A. C. Every lot of potatoes has three rigid inspections, two in the field and one in the bin. The first field inspection is made while the plants are in blossom, the second shortly before the vines are killed by the frost, and the bin inspection is made as soon as possible after the potatoes have been harvested and stored. Growers who apply for this inspection service must themselves plant certified seed and to maintain hill selected seed plots. In 1921, 1,020 acres were listed for inspection and certificates were issued to 95 growers, covering approximately 94,000 bushels. Certified seed can be obtained from the seed department of the Michigan State Farm Bureau which is the official selling agency of the Michigan Potato Producers' Ass'n. A copy of the bulletin issued by the Potato Producers' Ass'n describing certified potato seed with the names of the growers can be obtained by writing the Association at East Lansing, Mich.—Editor.

ROUGHAGE REMAINS ON THE PREMISES

I rented a farm of A for 1 year ending Dec. 1, 1921 for share rent. A gets two-thirds of all crops including all rough feeds, corn fodder and straw. A sells his share of crops including rough feeds. I feed my share on the place. Have I any right to draw the manure off the place. I have a farm one mile from place I rent. My year ended Dec. 1, 1921. I have

HELP THIS SUBSCRIBER

We expect to vote on consolidation of schools in this county the coming spring. Now I would like to ask a few questions through the M. B. F. from parents who live in consolidated districts. There was an article in a recent M. B. F. by Mr. Johnson, but he doesn't say anything in regard to getting children to school or extra taxes or higher salaries to teachers.

Now I would like to hear through the columns of the Business Farmer in regard to these matters. We have a lot of snow drifts to contend with one winter after another in this part of the county and taxes about all we can handle. But if it is a step in the right direction I am ready to vote for it. But it looks to me as if it was going to put a big burden onto the people of Michigan.—Martin Poland, Middleville, Mich.

agreed to do some certain work on the place for privilege of living here until April, 1922. I intend to move off in the spring. Can I draw the manure that I get this winter? A tells me not to draw any manure off the place, but I consider the manure is my own property. If I had it on my wagon from the stable can he stop me from drawing it off place?—C. R., Grant, Mich.

If the roughage was raised on the farm I am of the opinion that unless you have a clause in the lease giving you authority to move off the roughage and not keep the same on the place you could not remove the manure. That it is a part of the real estate and belongs on the farm. Had you been given authority in the lease to remove the roughage I think you would then have authority to remove the manure. It would make no difference where you loaded it whether directly from the stable or from the yard, it is the nature of the material that would determine whether it belonged on the premises or not.—Legal Editor.

FEEDING GROUND CORN AND COB

Is it all right to feed cows corn ground, grain and ear together?—W. F. A., Richland, Mich.

It is perfectly good practice to grind corn and cob together and feed them in this way and this practice is followed by many dairymen. The most that you can say for this practice, however, is that it makes it very convenient for one who is grinding with a small outfit by the use of horse power on the farm. As far as the feed value that is obtained from the ground cob, will say that there is no feed value to it to speak of. It does help to lighten the ration and it helps to make filler for the ration, but it really requires as much or more energy to digest the ground cob than is contained in the cob itself.—O. E. Reed, Professor of Dairy Husbandry, M. A. C.

FUR DEPARTMENT

EDITED BY A. R. HARDING

America's Foremost Author and Trapper

QUESTIONS ANSWERED

HIDE TANNING

Will you kindly answer through the columns of your paper how to tan a hide with the hair on?—H. L., Elm Hall, Michigan.

It is presumed that the hide is to be tanned for robe, but if so or not, perhaps the following is as good method as any: Water, 1 gallon; alum, 2 1-2 pounds; salt, 1 pound.

Heat the water to dissolve the alum and salt and when cool brush on the flesh side of the dampened hide. Fold the flesh sides together and leave in a cool (but not freezing) place. Repeat this liquid application once or twice a day for something like five or six days, the object being to keep the hide damp with the chemicals until they penetrate.

After tanning apply an oil dressing of which there are many. Try tallow and neatsfoot oil, equal parts. Another is yolk of egg 1 pound, glycerine 1-2 pound and apply evenly and rub in well.

TELL THEM THE FACTS

In August of this year the writer signed a contract with the International Correspondence School for a course in Civil Service. He was to pay five dollars a month until the full amount was paid which is one hundred and five dollars. He now is out of work and being a married man finds he cannot make the payments and wishes to discontinue them. In what way would you have to go about it? Can anyone collect a debt from soldiers' government bonus or pension? In selling a farm would income tax be on the full amount or just on the payment received?—A Subscriber, Macomb County, Mich.

I suggest that you write the school concerning your circumstances and ask them to cancel your contract, and I think likely they will do so. Of course, you will probably lose what money you have already invested. Your second questions is not altogether clear. No one can attach your bonus before it is paid as in the case of wages, but you can be sued for debt and no exceptions would be made on the grounds that your only funds are your bonus. In selling a farm income tax would be payable on the difference between what you paid for the farm and what you received, less any improvements you may have added.—Editor.

PUTTING ON LIGHTNING RODS

A company put lightning rods on my barn and they connected the wire to both ends of the hay carrier track. Is it safe to have it that way? Some say if the lightning gets in on that track it can't get out, on account it has to go up hill to get out. Please tell me which is true about this. They put a conductor from the main cable to the track.—A. A., Tus-tin, Mich.

It is considered good practice to connect metal equipment in barns and other buildings to lightning rod conductors to furnish an easy path for the current from the hay track and other like equipment to the ground. One principle which is usually followed is to give the conductor a downward path or slope so that a charge in going to the ground will not have to go over the hill, if it can be expressed that way, to reach the ground. It would seem that the logical way to connect the hay track would be to connect the ends to the ground, wires giving the connections a slope down from the end of the track to grounds.—H. H. Musselman, Professor of Farm Mechanics, M. A. C.

PERPETUAL MOTION

I understand that several rich men such as Noble, Carnegie, etc., have left money to be paid over to the discoverer of perpetual motion, and that several countries offer a prize to the man who discovers it. What can you tell me about it?—H. M., Alden, Michigan.

I have no personal knowledge of such prizes. Your letter was referred to the Scientific American, an authority upon such matters, the editor of which replies as follows:

There is no fund offered as far as we know for anything as chimerical as perpetual motion, which has been condemned by the best engineers and scientists that the world has ever produced. Owing to the fact that the Patent Office will not receive applications on perpetual motion in the absence of a working model, this should be sufficient guarantee for every sane person that perpetual motion contravenes all physical laws. We have published articles on this subject many years ago, and there is no literature available as far as we are concerned at the present time. There was a book published on perpetual motion some seventy or eighty years ago and this is of course also entirely out of print and cannot be supplied. You will be very safe in discouraging anyone who has the slightest interest towards the pursuit of this subject.—Scientific American Publishing Co., New York.

INTEREST ALL BANK IS ENTITLED TO

I would like to ask if a bank can take a bonus besides the interest when renewing a note?—P. K., Emmet County, Michigan.

In renewing a note the bank would not be entitled to take a bonus that would make the total interest more than seven per cent from the time the note was drawn.—Legal Editor.

What the Neighbors Say

FEDERAL FARM LOANS

MAY I HAVE space in your paper to briefly reply to some things that seem to interest at least a few of your readers?

First, may I mention for the benefit of Mr. J. E. Anderson that this Sickles is no more than a plain, common country doctor of medicine, always located in small towns where perhaps 80 per cent or more of the business has been among farmers, the best people on earth.

Mr. Anderson mentions that it is a pity I have not the millions of Rockefeller, Gould, together with several other millionaires. Surely I wish this might be true and if so the first thing I would do would be to invest the money in federal farm loan bonds drawing 5 1-2 per cent interest without any taxes to pay. Wouldn't that be fine?

My article relating to federal farm loans was written after some little investigation and only for the purpose of throwing some light upon the subject, as here as well as in all other matters there are two sides to the question.

It is certainly immaterial to me whether the federal farm loan law is good or otherwise and if I had all the millions Mr. Anderson so generously wishes upon me, not one dollar would be invested in farm loans.

Now, further, if what was written March 12, 1921, concerning the federal farm loans is not true, why does not some one say so and not come back with only sarcasm? That never got any one any where and never will.

Best wishes for your good farm paper.—Dr. B. C. Sickles, Petoskey, Michigan.

I think, Doctor, we shouldn't be too hard on our good friend, Anderson. So much of the opposition to the federal farm loan system has come from men whose own selfish interests are affected that it is perhaps natural that all who oppose the system should be placed in that category. The federal farm loan system isn't all that it should be or might be, but the fact that it has already loaned hundreds of millions of dollars would appear to be good evidence that it fills a certain need. As to whether the bonds should be exempted from taxation, that is another question. It would be better for us all no doubt if all bonds were taxed alike, but since there are billions of non-taxable bonds already on the market why should we suddenly draw the line and begin to tax bonds which are floated to help the farmers. The sentiment against non-taxable bonds is growing fast, and we shall not be surprised if legislation is adopted within the next five years to tax all future bond issues.—Editor.

CAPITALISM

WITH THE permission of the editor of M. B. F. I would like to make some comments on Mr. Slagle's letter of Nov. 19, and also the editor's comment on same. Mr. Slagle utters some very plain truths in regard to the condition of millions of people in our country, and it is also true that there is much food produced and very much of many things for human welfare and human comfort.

I agree with our editor that Mr. Slagle offers no remedy for the present deplorable conditions, but I do not agree when he says that shutting off exports would be like cutting off our noses to spite our faces. If the remedy suggested by the editor, viz.: the farmers so organized that they could control production, were carried into effect, it would be a case of limiting production for the sake of securing higher prices for the things produced.

The trusts are able to do this, and as a result we have high-priced steel, coal, copper, lumber and so on, and individuals who wish to buy those products are forced to pay the price, or else fail to get the goods. The result: Over-production as a result of under-consumption, markets glutted with goods of all kinds which the masses are unable to buy because of unemployment. In other words the workers, the wage earners in our various industries, can not buy back with their wages, what they have produced. Our country, being perhaps the most highly specialized country in the world, with the workers speeded up to the limit, produce a vast accumulation of unsold

goods, which must find a foreign market if possible. This foreign market is the safety valve of our present competitive system of industry, and when the foreign market fails, our manufacturing establishments must close. Our manufacturing plants are not owned by the men who produce, but are owned by men who are interested solely in producing goods for profit, and profits can not be made on an exclusively home market.

The reason for needing an export market at the present time lies not in the assumption that all of the American people, men, women and children are bountifully supplied with all the comforts, or even the necessities of life. But the real reason is, that being unable to sell to our own people who are limited consumers, "big business," which owns and controls the grain, is hard pressed for a market in which to dispose of their goods.

The United States is some two hundred millions of bushels of wheat short of a normal year. The same is true of oats and rye. Corn was the only normal crop of grain grown this present year, and yet we have the anomaly of people hungry for bread, for meat, and are homeless, yet anxious to work, but living in enforced idleness, and our jails, prisons, asylums and sanitariums are full to overflowing.

The deflation carried on by our Federal Reserve Banks, has driven thousands of farmers into bankruptcy. These banks have been a large factor in the paralysis of business, but are not wholly responsible for our present condition. The capitalist system is unable to function, and can be made to do so only at the expense of poverty, sickness, squalor and death of thousands of workers. Remedy: Nationalize the land. Let the people own the trusts, the railroads, oil, coal, telegraph, telephone, and all of the means of production, communication and transportation.

The workers of the world in brain or brawn, who produce all things should own all things, not for profit and foreign markets, but for use. We are maintaining vast armies of parasites whose lives are expensive to the workers, because they demand luxuries which the workers can not obtain for themselves.

Until every man, woman and child is properly housed, fed, clothed and educated, what passes for civilization will be found to be a veneer over our savagery, and our gold and our silver will rust and our garments be moth eaten, and no apology can disguise the hideous fact. War, famine, pestilence and death will sweep away the lives of millions of people, and the world may face again the possibility of the return of the Dark Ages.—E. H. B., Shelby, Mich.

"Many men of many minds." Oh, if we could but agree on some of the great world economic questions! The theories of decapitalization, of common ownership and use of natural resources, destroying all profits and interest, all have their appeal. But when we bring them under the microscope a thousand doubts assail us. The theory has been put to the acid test many times. It has always failed. Let us not make the mistake of blaming our present "capitalistic" system for all our economic ills. We will always be cursed with people who won't work, who can't work, who are dishonest and weak-minded. You may change the "system," but you can't change human nature. You may destroy capitalism but you can't destroy the prison, the poorhouse, the asylum and the hospital. You will still have need for them. Our present system needs fixing all right. But we don't have to tear it all down to repair it. Some industries should be owned by the government. Others should not. It is true that an army of parasites is taking an enormous toll from those who produce. But better organization on the part of the actual producers, and more effective legislation and growing competition will reduce the ranks of those who "toll not, nor spin." By the way the wheat crop of 750 million bushels is not "200 million bushels short of a normal crop. It is just about a normal crop.—Editor.

NUMBER OF RURAL PHONES

Some figures of the United States census of agriculture for 1920 throw an interesting light on the extent to which the telephone serves the farmers. More than 1,500,000 farms in this country are equipped, which means that nearly two-fifths of all the farms in the United States now have telephone service.

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THE LITTLE MATCH GIRL

IT WAS very cold, the snow fell, and it was almost quite dark; for it was evening; yes, the last evening in the year. Amid the cold and darkness a poor little girl, with bare head and naked feet, was coming through the streets. It is true she had a pair of slippers when she left home, but they were not of much use. They were very large slippers, so large indeed that they had hitherto been used by her mother; besides the little creature lost them as she hurried across the street to avoid two carriages that were driving very quickly past. One of the slippers was not to be found, and the other was pounced upon by a boy who ran away with it saying it would serve for a cradle when he should have children of his own. So the little girl went along, with her little bare feet that were red and blue with the cold. She carried a number of matches in an old apron, and she held a bundle of them in her hand. Nobody had bought anything from her the whole live-long day; nobody had even given her a penny.

Shivering with cold and hunger, she crept along, a perfect picture of misery—poor little thing! The snowflakes covered her long, flaxen hair, which hung in pretty curls round her throat; but she heeded them not now. Lights were streaming from all the windows, and there was a savory smell of roast goose; for it was New Year's Eve. And this she DID heed.

She now sat down, cowering in a corner formed by two houses, one of which projected beyond the other. She had drawn her little feet under her; but she felt colder than ever; yet she dared not return home, for she had not sold a match and could not bring home a penny! She would certainly be beaten by her father; and it was cold enough at home besides—for they had only the roof above them, and the wind came howling through it, though the largest holes had been stopped up with straw and rags. Her little hands were nearly frozen with the cold. Alas! a single match might do her some good, if she might only draw one out of the bundle, and rub it against the wall and warm her fingers.

So at last she drew one out. Ah! how it sheds sparks, and how it burns! It gave out a warm, bright flame, like a little candle, as she held her hands over it—truly it was a wonderful little sight! It really seemed to the little girl as if she were sitting before a large iron stove, with polished brass feet and brass shovel and tongs. The fire burned so brightly and warmed so nicely that the little creature stretched out her feet to warm them—likewise, when lo! the flame expired, the stove vanished, and left nothing but the little half-burned match in her hand.

She rubbed another match against the wall. It gave a light and where it shone upon the wall, the latter became as transparent as a veil, and she could see into the room. A snow-white tablecloth was spread upon the table, on which stood a splendid china dinner service, while a roast goose, stuffed with apples and prunes, sent forth the most savory fumes. And what was more delightful still to see the goose jump down from the dish and waddle along the ground with a knife and fork in its breast, up to the poor girl. The match then went out, and nothing remained but the thick, damp wall.

She lit yet another match. She now sat under the most magnificent Christmas tree, that was larger, and more superbly decked, than even the one she had seen through the glass door at the rich merchants'. A thousand tapers burned on its green branches, and gay pictures such as one sees on shields, seemed to be looking down upon her. She stretched out her hands, but the match went out. The Christmas lights kept rising higher and higher. They now looked like stars in the sky. One of them fell down and left a long streak of fire. "Somebody is now dying," thought the little girl—for her old grandmother, the only person who had ever loved her, and who was now dead, had told her that

The Farm Home

A Department for the Women

Edited by MRS. GRACE NELLIS JENNEY

DEAR FRIENDS:

Christmas again and I find I am wondering
What I shall say in my greeting to you
You know you have always the best of my wishing;
Our Friendship's been tested and tried and proved true.
And yet in this world with its rush and confusion
It's scheming for goods and it's barter for gain,
It gives the heart courage, it lends all life beauty
To know that thru all things the Old Friends remain.
So here's to your Christmas, it's gladness, it's pleasure
May the best of all good things in fulness be yours.
And let us together rejoice that life's measure
For us holds a friendships that's faithful—endures.

—Mrs. Grace Nellis Jenney.

when a star falls it is a sign that a soul is going up to Heaven.

She again rubbed a match upon the wall, and it was again light all around, and in the brightness stood her old grandmother, clear and shining like a spirit, yet looking so mild and loving. "Grandmother" cried the little one, "Oh, take me with you! I know you will go away when the match goes out—you will vanish like the warm stove and the delicious roast goose and the fine, large Christmas tree!" And she made haste to rub the whole bundle of matches, for she wished to hold her grandmother fast. And the matches gave a light that was brighter than noon-day. Her grandmother had never appeared so beautiful nor so large. She took the little girl in her arms and both flew upwards, all radiant and joyful, far, far above mortal ken, where there was neither cold, nor hunger, nor care to be found; where there was no rain, no snow, or stormy wind, but calm sunny days the whole year round.

But in the cold dawn, the poor girl might be seen leaning against the wall, with red cheeks and smiling mouth; she had been frozen on the last night of the old year. The new year's sun shone upon the little dead girl. She sat still holding the matches, one bundle of which was burned. People said: "She tried to warm herself." Nobody dreamed of the fine things she had seen, nor in what splendor she had entered, along with her grandmother, upon the joys of the New Year.—Hans Christian Anderson.

TOO MUCH ATTENTION TO CLOTHES

WOULD YOU permit an Ohio farmer's daughter to enter your circle, "The Farm Home?" We are new subscribers to the Michigan Business Farmer. I enjoy the letters very much but did not admire the tone of J. Bogner's letter, Monroe county.

I was born and reared on a farm of 600 acres and will say you cannot go immaculate every day. If my father and mother had been "stuck" on their personal appearance and afraid to get their clothes soiled they never would have accomplished anything. And they own quite a nice fortune and now can sit in their easy chairs and watch "the rest of the world go by." And I think a man that is an egotist could never win my heart. I admire a physical cultured man or woman. Have seen in our community men who always wore "stand up" collars still living on their 40 acres of land.

A man and woman to make a success must go 50-50. And if they really love cannot be attracted by "the baby vamp" and "stiff collared man." A man should realize that a "vamp"—all of her—isn't worth his wife's little finger. And a wife doesn't have time (unless her fortune is made) to polish fingers and arch eyebrows, etc. A woman who marries a laboring man should realize the same.

A word as to myself. I am 25 years of age and this fall with our community full of men that did not wish to get their hands soiled I put

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and 14 years. A 12 year size will require 2 1/2 yards of material 36 inches wide.



guimpe and 2 1/2 yards for the dress. Gingham was chosen for the dress and crepe for the guimpe. Either material is good for both. Percale, serge, poplin, repp and garbardine also are desirable.

A Jaunty Frock for the Growing Girl 3332. Simply made and finished with artistic embroidery, this model cannot fail to please any girl in her "teens." In velvet, serge, or wool jersey it will be serviceable and quite smart. The closing is under the left side of the flat panel. This is a splendid design for the use of two materials.

The pattern is cut in 4 sizes: 8, 10, 12, and 14 years. A 12 year size will require 2 1/2 yards of material 36 inches wide.

A New Dress for Mother's Girl 3313. For school or play this model has many attractions. The over dress is sleeveless and is worn with a simple guimpe that may be finished with long or short sleeves. The dress has a smart pockets and good comfortable lines.

The pattern is cut in 4 sizes: 4, 6, 8, and 10 years. An 8 year size requires 1 1/2 yards of 27 inch material for the dress. Gingham was chosen for the dress and crepe for the guimpe. Either material is good for both. Percale, serge, poplin, repp and garbardine also are desirable.

A Simple Frock for Mother's Girl 3318. Active little girls like comfortable dresses, such as this model illustrates. This style is fine for all wash materials, and for serge, garbardine, suiting, taffeta, poplin and jersey cloth.

The pattern is cut in 4 sizes: 1, 2, 3 and 4 years. A 2 year size requires 2 yards of 36 inch material.

A Stylish Gown 3300-3395. Charmingly lovely for black velvet, crepe or faille, is this collarless model, with its graceful drop shoulders and peasant sleeve. Quite in keeping with the full skirt. One could have this in Canton crepe with embroidery, or in the ever serviceable crepe de chine with a simple finish of "picot."

The waist pattern 3300, is cut in 6 sizes: 34, 36, 38, 40, 42 and 44 inches bust measure. The skirt 3395, in 6 sizes: 24, 26, 28, 30, 32 and 34 inches waist measure. To make the costume for a 38 inch size will require 7 1/2 yards of 32 inch material. The width of the skirt at the foot is 2 1/2 yards. This illustration calls for TWO separate patterns which will be mailed to any address on receipt of 12c FOR EACH pattern in silver or stamps.



on my father's high boots and went into the corn field and husked and hauled corn.

When my parents started my mother was 16 years old and she would do all the chores, milking, etc., and fed as high as 12 men. If she ever grew weary she never complained. If she had run off with some good looking, highly polished man where would she be today? "The wages of sin are death."—Miss Z. B. M.

CORRESPONDENTS' COLUMN

Mrs. A. McG.: Your letter received and I will be interested in looking up some information for you as soon as the holiday rush is over.

I can not send patterns by return mail as all our patterns come from the East. We do the very best we can to get them to you promptly. Send for your patterns at least one week before you want to use it. The catalogs cost you 15c not 25c.

Sorry Husband: Thank you for your letter. I want to publish it soon. It will perhaps induce some good New Year resolutions and thus you may be serving mankind.

Hair Receiver

I am an interested reader of the Farm Home department, also of the Children's Hour. I am thirteen years old. I am making a basket (crocheting it) for a hanging hair receiver. I wonder if any of the readers could tell me how to stiffen it? Will starch do it? I enjoy the poems on the women's page.—Mary Kennedy.

I am glad to have a letter from you and to know you like our poems. Your basket may be stiffened by dipping it in a solution of sugar and water well dissolved; about 1/2 cup of sugar in 1 1/2 cups of water. Pull the basket into shape as it dries. It will be quite glassy.

Cleaning Out the Rust

I saw in the M. B. F. a week ago where some one wanted to know what would take rust off of a sink. I have tried kerosene but haven't found anything any better than chloride of lime and Dutch Cleanser. Hoping my reply may help some one.—Mrs. C. A.

Marriage a Sacrament

Have read the home department with interest. Would like to say whether marriage is made in heaven or on earth it should be considered sacred. So sacred that God has given as a commandment regarding it, "Thou shalt not covet thy neighbor's wife." It means toil and sacrifice to raise a family, but there is joy and blessing in it. And a child well brought up helps to make the world a better place to live in. I believe most men and women like to wear good clothes if they can afford them. But beauty of character is far more beautiful than outward adorning. And who can measure the span of an upright life? Wife, if husband can't wear good clothes honor him for his self denial and sacrifice. And by the way, some men are of no more benefit to the world than a suit of clothes. The pity is, they have power to do more harm. Yours for a clean manhood and inviolate womanhood.—A Subscriber.

Reason Corn Soured

I am a reader of the Business Farmer and I saw in the Nov. 16th issue where a lady said her canned corn had soured. The trouble was she didn't boil it long enough. It should be boiled three hours at least AFTER IT BEGINS TO BOIL, never letting it stop but adding more boiling water from tea kettle as it boils down in the boiler and never remove lids to add more juice. If this lady will send to the U. S. Department of Agriculture and get a bulletin on canning and follow it to the letter, she will never have trouble with it souring. I think corn is unfit for use when in that condition.

If any of the ladies have trouble in having starch show on black or dark blue prints when ironed, try what I was taught to do in the laundry. Melt a tablespoon of brown glue in a little water on the stove, then add water enough to starch a dress. Let dry and sprinkle same as usual. If it is too stiff use less or add more as needed. It washes out like starch and does not show white.—Mrs. G. S.

Chop Suey

1 1-2 lbs. veal steak, 1 1-2 lbs. pork steak, 1 cup water, 1 quart diced onions, 1 quart diced celery, 1 quart mushrooms or if unable to get mushrooms substitute lima beans. Dice meat, flour and brown in butter in spider. When brown, pour on one cup of water, cover and simmer 10 minutes. Salt to taste. Cook onions and celery in butter until brown and salt to taste. Add all ingredients together and bake in casserole one hour. Equally good prepared day before and warmed up when ready to serve. If wanted to serve in truly Oriental style, mould plain boiled rice, serve in side dish and serve "Chinese bean sauce" with both rice and chop suey.—Mrs. G. W. W.

The Children's Hour

DEAR CHILDREN: Will we have a green Christmas? A few days ago the ground was all covered with snow and I thought to myself that we would have a real Christmas (it always seems more like Christmas to me when there is lots of snow) but today the ground is bare. I just looked out the window and saw two or three flakes come floating down so maybe we will have a white Christmas after all. I hope so, don't you? I have so many things I wanted to print on our page this week but shortage of space crowded them. I have a very pretty Christmas story but I cannot use it. I have one thing that I am going to take the space for and that is the following which I recently found:

"Animals are very easy to please. Kind words are much to them, and small gifts go a great way. Why should not every horse, donkey, dog and cat, yes, and all the farm creatures, too, have a Christmas treat, and share our joy? Horses and donkeys love sweets, apples, carrots and bits of bread. How sad to think that many spend Christmas alone and forgotten, perhaps cold and hungry in wretched stables, or wandering about in the bitter weather!"

Do not forget the many animals on the farm this Christmas, will you? I hope you all receive a full stocking and I wish you a most merry Christmas.—UNCLE NED.

OUR GIRLS AND BOYS

Dear Uncle Ned—As it is getting near Christmas I suppose you will receive many letters, stories and poem. I am reading "Nomads of the North," and enjoy it very much. A short time ago I saw it played here in Lansing. I will close my letter with a poem that I hope to see in print—Aurilla Wickerham, Lansing, Michigan.

Christmas Greetings

Heap high old nature's hoary snow
On every branch of mistletoe,
And holly gleaming here and there
A spot of green and a dash of red,
A wreath for good old Santa's head,
A crown for his snow white hair.

Heap high old nature's snowy white.
Hear joy bells ring, 'tis Christmas night,
A hum of joy from everywhere
For Santa Claus will soon be here
With a "Merry Christmas" of good cheer,
And his "Happy New Year" thrills the air.

Dear Uncle Ned—I want to join your merry circle. I am 12 years old. My birthday is October 3rd. I have two sisters and one brother. If I have a twin I wish that they would write to me. For pets I have a dog. It is 3 months old. I live on a 120-acre farm. Luella Krupp, I think the answer to your riddle is the "sun." I will say goodbye to Uncle Ned and all my cousins.—Vera Gilman, R 1, Burt, Michigan.

Dear Uncle Ned—We take the M. B. F. and like it very well. When are the Doo Dads coming back again? I live a mile and a half from school. I am a girl 12 years old and in the 7th grade. For pets I have three kittens and a dog. We have two horses and I ride one of them. I wish some of the boys and girls would write to me. I would be glad to write to them.—Elva Emmons, Weidman, Mich.

Dear Uncle Ned—I am sixteen years old and am a girl scout and am interested in all sports. In the summer swimming is my favorite sport, and in the winter skiing is my favorite. I promise to answer all letters that I receive.—Marjorie E. McKay, Sidnaw, Michigan.

Dear Uncle Ned and Cousins—My brother Ward has written to your page. I thought I would write and tell you how much I like to read the Children's Hour. I like it very much. I was born in the

state of Washington. We have lived in the states of Nebraska, Washington, Michigan and are now in New York on a dairy farm. Last year we had a dog. His name was Shep and he was a good cow dog and a real pet. He helped us make garden. My little sister spilled some sweet corn kernels and he took his front feet and covered them up and it grew up nice and green. Shep had the distemper and died. I saw a letter from my cousin Leon Julien of Harrietta, Mich. I would like to have the cousins of the M. B. F. write to me. My birthday is the 26th of April. I will be 12 years old. I will close with a riddle: Love I see, on love I stand; love I hold in my right hand. I have told you this riddle three times in a row and yet you don't know. Guess this riddle please.—John Hann, Jr., Franklinville, New York.

Dear Uncle Ned—Well it is very near Christmas again. I bet you are all thinking what you will get and give and what a happy time you and your friends will have. I wish you all a merry Christmas and a happy New Year. I hope you will all think to thank God for the good he has done for us. I would like to hear from any girls or boys about how they spent their Christmas. This is how I spent my Christmas last year: Christmas day I got up at 7:30 or somewhere around that time and we ate our breakfast and began to get dinner. All of our folks came and we played games and at night I went to a neighbor's and sure had a good time. And I expect to have a better time this year for last year most every one was sick. May I come again? Will some one from Covert, Mich please write to me? I am 16 years old.—Mildred N. Farrell, Blanchard, Michigan.

Dear Uncle Ned—How are the children? I have been going to write for a long time. My grandma has asked me every time I went to see her why I didn't write. I am interested in the Children's Hour. I am a girl 10 years old and in the 5th grade at school. I have 2 brothers; Melvin is 19 years old and Marion is 12 years old. I have no sisters so I am the only girl in our family. My birthday is May 19th. I wonder if I have a twin. If I have write to me and I will answer all letters. We live on a farm of 160 acres. We have 10 horses, 11 cows, 8 hogs, 22 little pigs, 3 calves and 30 head of cattle. For pets I have a cat and 2 old rabbits and 2 little rabbits. We have a Ford car. The school teacher boards at our house.—Edna Hutchinson, Alma, Michigan.

Dear Uncle Ned—I am a farm boy. I am 13 years old. My birthday is on the 3rd of August. I am in the 7th grade at school. I wonder if I have a twin. I like to attend school and I would go to Sunday school but the church is so far away from here that I never go. My father takes the M. B. F. I have a brother 14 years old and he is in the 8th grade. I live on an 80-acre farm and we have 4 horses, 14 cattle, 4 pigs and about 80 chickens. For pets I have 4 cats and a colt and I have a lot of fun with the colt.—Ferdinand Smith, R 3, Traverse City, Michigan.

Dear Uncle Ned—I am a farmer's boy 12 years old. We take the Michigan Business Farmer and we like it very much and I like to read the letters that the other boys and girls write. I live 1 1/2 miles from school and I am in the 7th grade at school. I have 2 sisters and 3 brothers. I live on a 200-acre farm. We have 6 head of cattle, 5 horses and a tractor. For pets I have 4 cats. Their names are: Coon, Squeaker, Chubby and Patches. I wish some of the boys and girls would write to me.—William Swanebeck, Fenton, R 1, Michigan.

Dear Uncle Ned—I am 10 years old. My birthday is March 7. I have been looking for somebody whose birthday is the same day as mine. Have I a twin brother or sister? We are going to have a Christmas program at our school. We have 25 in our school. I have to play an instrumental piece. I play the organ and piano. I took violin lessons last summer. I wish that Doc Sawbones would come back. Luella Krupp said that she wished somebody would answer her riddle. I believe that the answer is a star. Please write to me Luella and tell me if that is right.—Christine Ross, Columbiaville, Mich.

Dear Uncle Ned—I am 12 years old. My birthday is June 22nd. I am in the 7th grade at school. I have 6 sisters and 5 brothers.—Sophia Betty Scheletma, R 1, Ada, Michigan.

Dear Uncle Ned—I read the Children's Hour and think it very nice. I go to school and like it. We live on a farm 7 miles from Allegan. My birthday is on the 23rd of August. Have I a twin? If so, please write to me. For pets I have one skunk, two cats and a rabbit. I am four feet nine inches tall. I am in the seventh grade.—John Cook, R 2, Allegan, Michigan.

OTHER LETTERS RECEIVED:

Marion J. Hutchinson, R 5, Alma; Elva Yunker, Weidman; Marion Hill, Birmingham, R 4; Ruth Bentley, R 4, Marlette; Ida Wilder, Long Lake; Gertrude E. Kirtland, Eldon; Ruth Esther Blackmore, Leslie, Mich.

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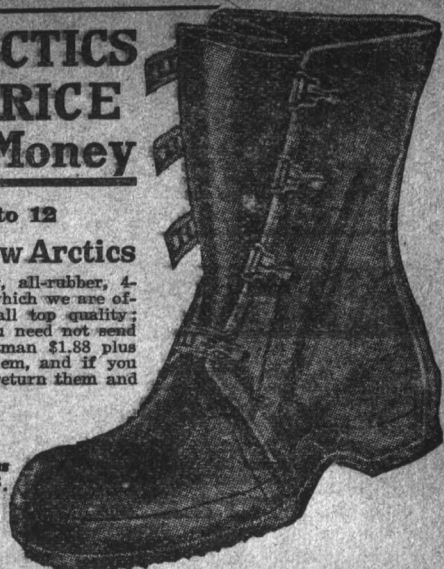
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Lalley Light Corp.
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Many who are inclined to over-thinness, or anemia and dread winter's cold, should take

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and keep on taking it and realize how effectually it warms and strengthens the body and helps make winter enjoyable.

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Immense yields year after year without replanting. Seed from original stock, selected to increase germination. Booklet and seed sample FREE. A. R. LYMAN, Introducing of Grimm Alfalfa. Excelsior, Minnesota. 551 Water Street

DOES NOT WINTERKILL

"HO! HO! IT SNOWS," CRIES THE SCHOOLBOY

But what if it does, what fun can you have if you do not have a good coaster?

Think what joy the first snowfall will bring to you if you have a brand new FIRE FLY COASTER all ready and waiting to carry you down the hill back of the barn at lightning speed, one that is fast enough to win a race at school. You don't want to stand on the side lines and watch the other boys and girls coast down the hill in a merry race again this winter.

GET A FIRE FLY COASTER

and enjoy some real healthful sport this winter.

We have purchased a lot of FIRE FLY COASTERS to supply our boy and girl friends and are going to give them away without a single penny of expense and for only a few hours work.

The FIRE FLY COASTER has spring steel runners, I-shaped, making them strong, vertically, but flexible sidewise. This enables one to guide the Coaster by the steering bar, curving the runners to the right or left, as desired. The steering is thus made easy, and is a great charm to the Coaster. Light, Fast and Strong.



Length 32 inches, height 6 inches, width 11 inches, weight 7 pounds

How to get one of these Dandy Sleds

We will send by prepaid parcel post a FIRE FLY COASTER to each boy or girl who sends in four yearly subscriptions to THE MICHIGAN BUSINESS FARMER at \$1.00 each (at least two of which must be new). No additional commission will be paid on these orders.

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CLAIM YOUR SALE DATE

To avoid conflicting dates we will without cost, list the date of any live stock sale in Michigan. If you are considering a sale advise us at once and we will claim the date for you. Address, Live-Stock Editor, M. B. F., Mt. Clemens.

Jan. 4—Holsteins, Fertiland Farms Dispensary, W. T. Bandeen, Mt. Pleasant, Mich.
Jan. 13—Horses—Mich. Horse Breeders Ass'n. M. A. C., East Lansing, Mich.
Feb. 2—Hampshire Swine, Lenawee County Hampshire Swine Breeders Ass'n. Adrian, Mich.

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John Hoffman, Hudson, Mich.
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L. R. Love—Waukesha, Wisconsin.
J. W. Lovewell, So. Lyons, Mich.
J. E. Mack—Ft. Atkinson, Wisconsin.
D. L. Perry, Columbus, Ohio.
J. I. Post, Hillsdale, Mich.
O. A. Rasmussen, Greenville, Mich.
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We make a specialty of selling pure bred big type Poland Chinas, Spotted Poland Chinas and Duroc Jerseys. We are experienced. We sell 'em and we get the money. We are expert hog judges. We are booking dates right now for 1922 sales. We would like to sell for you. We have one price for both of us and it's right. Select your date; don't put it off; write today. Address either of us.

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SHOW BULL

Sired by a Pontiac Azalea Korndyke-Hengerveld DeKol bull from nearly 19 lb. show cow. First prize junior calf, Jackson Fair, 1920. Light in color and good individual. Seven months old. Price \$125 to make room. Hurry!
Herd under Federal Supervision.

BOARDMAN FARMS
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Holstein Breeders Since 1906

I AM OFFERING LIGHT COLORED HOLSTEIN-FRIESIAN bull 1 year old from 21.51 lb. dam and sire whose six nearest dams are 33.24 lbs. butter. Herd under state and federal supervision.
Oscar Wallin, Wisconsin Farm, Unionville, Mich.

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Breeders of Registered Holstein cattle and Berkshire Hogs.

Everything guaranteed, write me your wants or come and see them.

ROY F. FICKIES
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MY, OH MY! WHAT AN OPPORTUNITY

We are now offering a beautiful calf Aug. 2nd, 1920. His sire a 35.85 lb. dam's sire has three sisters each with records of over 1200 lbs. two of them World's champions. Write for pedigree.
HILLOREST FARM, Kalamazoo, Mich.

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DISPERSION SALE

48 High Class Registered Holsteins

at farm 3 1/2 miles east and 2 south of Mt. Pleasant. Heated sale room.

10 A. M., WEDNESDAY, JANUARY 4, 1922

Sale Consists of—

15 daughters of Colantha Pieter tje Penelope No. 129022
13 daughters Superba Rag Apple Johanna King No. 218339
12 daughters Prince Segis Mercedes Sadie Vale No. 260821.
Herd sire and 4 young bulls.
4 others by good sires.

Tuberculin tested. Sold on 60 day retest.

Catalogues ready by December 25th.

Auctioneer, S. C. Forney.

F. J. Fishbeck in the box.

W. T. BANDEEN, Owner
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\$ 50

BIG, HUSKY, HEALTHY, HOLSTEIN BULLS from Traverse State Hospital stock. Registered and ready for service.
GEO. W. PUFFER, So. Boardman, Mich.

BULL CALF, BORN APRIL 20, 1921, WELL grown, well marked, very straight, and sure to please you. Sire Segis Flint Hengerveld. Lad whose two nearest tested dams average 31.93. The dam is a 21 lb. three year old grand daughter of King Segis, she has a 30 lb. daughter. Price \$125.00 f. o. b. Flint. Write for extended pedigree.
L. C. KETZLER, Flint, Michigan.

HOLSTEIN FRIESIAN PURE-BRED BULL calves, also good grade heifers; tuberculin tested herd. Prices are right.
LARRO RESEARCH FARM, Box A North End, Detroit, Michigan.

SOME GOOD YOUNG REGISTERED HOLSTEIN COWS. Fair size, good color, bred to good bulls and due from July to December. Mostly from A. R. O. stock, prices reasonable and every one guaranteed to be exactly as represented.
M. J. ROCHE
Pinckney, Mich.

SOLD AGAIN

Bull calf last advertised sold but have 2 more that are mostly white. They are nice straight fellows, sired by a son of King Ona. One is from a 17 lb. 2 yr. old dam and the other is from a 20 lb. Jr. 3 yr. old dam, she is by a son of Friend Hengerveld De Kol Butter Boy, one of the great bulls.
JAMES HOPSON JR., Owosso, Mich., R. 2.

FOR SALE CHEAP My entire herd of Holsteins consisting of 30 head of grades and thoroughbred cows and heifers. **HENDRICKS SILVER FOX CO.,** Flint, Michigan, R 1

WOLVERINE STOCK FARM REPORTS GOOD sales from their herd. We are well pleased with the calves from our Junior Herd Sire "King Pontiac Lunde Korndyke Segis" who is a son of "King of the Pontiacs" from a daughter of Pontiac Clothilde De Kol 2nd. A few bull calves for sale. T. W. Anzures, R. 2, Battle Creek, Mich.

Fairlawn Herd—Holsteins

Hire Sire, Embaggard Lillith Champion 108073 His sire's dam Colantha 4th's Johanna, world's first 35 lb. cow, and world's first 1,200 lb. cow. The only cow that ever held all world's butter records from one day to one year, and the world's yearly milk record at the same time. His dam Lillith Plebe De Kol No. 93710, over 1,150 lbs. of butter from 20,599.4 pounds of milk in a year. World's 2nd highest milk record when made and Michigan state record for 6 years. Only one Michigan cow with higher milk record today. His two nearest dams average:
Butter, one year 1,199.22
Milk 28,515.9
Champ's sons from choice A. R. O. dams will add prestige to your herd and money to your purse.
J. F. RIEMAN
Owner
Flint, Mich.

A BLUE RIBBON WINNER YOUNG BULL on the 1921 Show Circuit. For sale at a low price. Out of an A. R. O. granddaughter of Pontiac Korndyke.
Sired by our SENIOR SHOW BULL Model King Segis Glista 32.87 lbs.
GRAND RIVER STOCK FARMS
COREY J. SPENCER, Owner
111 E. Main Street, Jackson, Mich.
Herd under State and Federal Supervision.

NICE YOUNG BULL

sired by 35 lb. son of King of the Pontiacs. Dam over 20 lbs. First check \$100 gets him. Also a few heifers by same sire.

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Two Holstein Bull Calves

Nearly ready for service.
A. R. O. dams. Sire one of Michigan's best bulls.
Dam of No. 1 has 512 lbs milk, 23.5 lbs. butter in 7 days at 4 yrs. Dam of No. 2 has 507 lbs. milk, 25 lbs. butter at 5 years.

They are both extra good, well marked and guaranteed right in every way. \$100 each. I cannot buy their equal for twice that amount.

A postal will bring particulars.

W. J. Gamble
606 Taylor Ave., Detroit, Mich.

7 YEARLING BULL BARGAINS

Sired by Segis Korndyke De Nilander, a 32 lb. son of a twice Michigan ribbon winner. Her dam, 29 1-2 lbs. Dams are daughters of King Segis Pontiac, a 37 lb. son of King Segis. Records 16 lbs. to 30 lbs. Priced at half value. \$100 up. Federally tested June 10. Write for list.
ALBERT G. WADE, White Pigeon, Mich.

FOR SALE—TWO BULL CALVES, A HOLSTEIN and Durham about 3 months old. Both have heavy milking dams. Not registered. \$50 each if taken at once.
CHASE STOCK FARM, Marietta, Mich.

HOLSTEINS THREE COWS AND BULL. Registered, heading strains. Singly or the lot. A real bargain.
M. E. OSBORNE, Sun Haven Farm
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DON'T BUY HOLSTEIN OR GUERNSEY CALVES ANYWHERE UNTIL YOU WRITE EDGEWOOD FARMS, WHITEWATER, WIS.

REGISTERED HOLSTEIN BULLS Sired by a son of King Ona and from good producing cows. Write for photos and prices.
EARL PETERS, North Bradley, Mich.

SHORTHORN

REGISTERED SHORTHORN CATTLE, DUROCS, Jersey Hogs and Percheron Horses. Quality at the right price.
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SHORTHORNS

We are now offering two splendid bulls, ten months old, the kind that is hard to find, out of our great breeding bull Perfection Heir; also a few heifers, some of them well along in calf. Will be priced worth the money. Write your wants or better come and pick them out. Will guarantee breeders.

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SHORTHORNS AND O. I. C's. Young heifers and bulls. Tuberculin tested. Spring pigs and bred gifts cholera immune. All stock registered free and guaranteed satisfactory. J. A. WILK & SON, Alma, Mich.

MILKING STRAIN SHORTHORNS Registered stock of all ages and both sex. Herd headed by the imported bull, Kelmscott Viscount 25th, 648.563. Prices reasonable.
LUNDY BROS., R4, Davison, Mich.

SHORTHORN CATTLE AND OXFORD DOWN sheep. Both sex for sale.
J. A. DeGarmo, Muir, Mich.

MACK'S NOTES

International Aftermath

That individual excellence and the development of outstanding physical perfection do not often come by chance in the breeding of improved live stock is aptly illustrated by referring to the antecedents of Lulu Mayflower, the heifer that was made grand champion of the fat class at Chicago. The mother of this wonderful heifer, Lulu of University Farm, 3rd, was also the mother of California Standard, the senior yearling Angus steer that won first in his class. The grandmother to Lulu Mayflower, was the mother of California Bystander, the junior Angus calf that was made grand champion steer of the Anguses breed; this wonderful cow was also the mother of one grand champion and two reserve champions during the early history of the International.

It was surely good to witness the smile that spread over the genial face of Prof. George A. Brown of the M. A. C., when he realized that his little Angus steer had won the grand championship of the show in the "slaughter test." The live weight of this steer was 1,110 pounds and the dressed weight, 694 pounds making a dressing percentage of 62.52. The carcass was sold to S. Lewin, Powers Mercantile Co., Minneapolis, for 65 cents per pound.

A remarkable demonstration of cross-breeding was shown by B. F. Harris Farms, Seymour, Ill. Four litters of pigs, all out of a pure-bred Tamworth boar but from sows of a different breed, were shown. Two litters from Hampshire mothers, were remarkable for their substance and sturdy character, but one litter was red with white belts and the other was black with white belts; of two other splendid litters shown, the pigs from a straight Duroc cross, were red and from a Poland China mother, red with black spots.

The University of California was very fortunate this year in its winnings; in addition to extended list of cattle prizes, Osgood S. Lovelock, a student of the California college, won the \$100 Ruth medal which was hung up by the Saddle and Siroin Club for the best essay on the live stock industry. Another California student won the third prize; the second and fourth prizes went to students from West Virginia. There were 143 essays submitted.

Seven aged Angus bulls came out to win the premier honors as a mature sire or doddies. The winner was Prince Marshall, shown by E. E. Blanford, of Hayward, Okla. The Blanford bull was given the grand championship honors for the breed. Never before, in the history of the show, did so many high class and absolutely typy young cattle show up in the various Angus classes.

The auction sale of Shorthorns proved to be a wonderful success the average for 14 bulls being \$694 and for 37 females \$639. The highest priced animal was Countess Vesta, the Grand Champion heifer of the show, which was bought by Buckland Hall for \$2,400. The highest priced bull brought \$1,800.

The Hubly Angus yearling steers brought \$40 per cwt. and were bought for Mose Greenwald to be divided between the Sullivan Beef Co., of Detroit and the Old Dutch Market, Washington, D. C. These wonderful cattle averaged 1,078 pounds; it will be seen, then, that each of these steers brought \$431.80.

C. H. Prescott & Sons may well feel proud of the record they made at Chicago. In the class for junior yearling bulls, Richland Augustus, a beautiful roan with a red neck won first. In the junior fat steer class the Prescott entry Richland Eclipse, easily won first prize. A junior yearling heifer, Richland Lassie and a junior bull calf, Richland Autocrat each won fourth prize. A senior yearling heifer, Fanny B 44th and a junior heifer calf, Cherry Bloom 3rd, each got 13th place in their respective classes.

The Carr Bros., Bad Axe, made some very good sales from their show herd cattle at the International; they sold a young bull for \$1,500 to a Canadian breeder and a heifer in the auction for \$475. Bloomdale Leader, the junior champion bull of the show, was also sold to J. W. McDermott, Kanoka, Mo.; the price received for the last mentioned animal was not given out but was said to be around \$5,000.

As an illustration of the strength of many of the calf and yearling classes at this year's show it may be of interest to mention that in the class for senior Shorthorn yearlings, 78 entries faced the judge. Any of the animals, that showed up in this ring, were good enough to head a class at an average county fair. Vint female at last fall's Michigan State Fair, got sixth place in Chicago. Bloomdale Miramar which was second to Vint Hill Mina in the class contest at Detroit was placed in 10th position, at Chicago.

There have been 1,164 carloads of fat cattle shown at the International Live Stock Exposition in the twenty shows held to date, since the International was inaugurated in 1900. During this period of 22 years covering the twenty International Expositions, 472 loads of Aberdeen Angus, 456 loads of Herefords and 237 loads of Shorthorns have been exhibited in the fat cattle department.

VETERINARY DEPARTMENT

DR. W. AUSTIN EWALT :: EDITOR

CONTAGIOUS ABORTION

Would you please tell me through the columns of your paper how to treat contagious abortion?—Reader, Morley, Mich.

The only way to treat contagious abortion is to have a graduated veterinarian douche and massage uterus and ovaries, also wash prepuc of bull before service and use anti-abortion bacterium (Kinsley's) of Kansas, City, Mo. Source of infection is by carriers, such as exposed cows, also cows once suffering from abortion. Milk is source of infection, discharges from cows, etc.

WARTS

Can you tell me anything to do for my young heifer? She has warts coming all over her and some quite large ones. She is fat and nice but those spoil the looks of her.—O. M., Hastings, Mich.

Give her 1-2 ounce of Fowler's Solution 3 times daily. Apply Fowler's Solution once or twice daily.

PIG LAME

I have a pig that has been lame for some time and it has a lump on each hind leg just below the knees. Would like your advice on what to do for it.—M. N. G., Gladwin County, Mich.

It is impossible for me to say what the cause of the lameness is. If rheumatism treatment would be to keep out of dampness and keep as warm as possible. Apply capsolin, and rub well. Give colchicum fluid extract 1-2 dram and salicylate soda 1 dram 3 times daily.

Horseshoe Pitching

National Rules Free

RINGERS AND HUBBERS PLENTIFUL

I saw what you said about pitching horseshoes. I think we have the making of as good pitchers as you will find anywhere. It used to be a great game here but has died out a little. However, where there is to be a championship to be fought for this neck of the woods will have to get busy. You wouldn't need a yardstick to do the measuring with as ringers and hubbers are very common. Please send on the rules and you will hear from us at the finish.—J. R. Cummins, Osceola County, Mich.

Get your men in shape and maybe I can get you a game with the Mason county champs. Keep me posted.—Horseshoe Editor.

HAVE STAR PITCHERS

My neighbor and I are anxious to start a horseshoe pitching club and will you please send me the book of national rules and instructions? We have some crack players here and would like to get organized and be ready to do battle royal with some other team. We play with the stakes 40 feet apart.—Harley Corser, Jackson County, Mich.

CAN ORGANIZE GOOD TEAMS

I am answering your article of Nov. 19th in the Michigan Business Farmer in regard to horseshoe pitching. I am a lover of the game and I think I could organize some fairly good pitchers around here. I would be very thankful if you would send me the rules on horseshoe pitching as I think I can make up some good teams here. I have been wanting to get some rules on the game for some time.—W. H. Monroe, Hillsdale County, Mich.

WILL WRITE

Am interested in horseshoe pitching and will be very much obliged for a set of rules. Will keep you posted as to results.—Frank Farnum, Lapeer County.

NEW LAMP BURNS

94% AIR

BEATS ELECTRICITY OR GAS

A new oil lamp that gives an amazingly brilliant, soft, white light, even better than gas or electricity, has been tested by the U. S. Government and 35 leading universities and found to be superior to 10 ordinary oil lamps. It burns without odor, smoke or noise—no pumping up, is simple, clean, safe. Burns 94 per cent air and 6 per cent common kerosene (coal-oil).

The inventor, A. R. Johnson, 609 W. Lake St., Chicago, Ill., is offering to send a lamp on 10 days' FREE trial, or even to give one FREE to the first user in each locality who will help him introduce it. Write him today for full particulars. Also ask him to explain how you can get the agency and without experience or money, make \$250 to \$500 per month. (Adv.)

FOR SALE MILK STRAIN DOUBLE STANDARD Polled Shorthorn Calves either sex, by Yorks Polled Duke No. 16384. 545109 from accredited herd. PAUL QUACK Sault Ste Marie, R 2, Mich.

FOR SALE 3 SHORTHORN BULL CALVES and 1 L T P C spring bear Inspection invited. SONLEY BROS., St. Louis, Mich.

WATERLILY STOCK FARM

offers 4 fine Reg. Shorthorn Bulls from 10 to 22 mo. old at bargain prices. THEODORE NICKLAS, Metamora, Mich.

CENTRAL MICHIGAN SHORTHORN BREEDERS' Association offer for sale 75 head; all ages, both milk and beef breeding. Send for new list. M. E. MILLER, Sec'y, Greenville, Mich.

FOR SALE—REGISTERED SHORTHORNS and Duroc Jersey spring pigs, either sex; two red bulls, one 11 months and one 5 months old. Several heifers from 6 months to 2 years old. Scotch Top and Bates bred. Address: GEORGE W. ARNOLD or JARED ARNOLD, Williamsburg, R 1, Michigan

THE VAN BUREN CO. SHORTHORN BREEDERS' Association have stock for sale, both milk and beef breeding. Write the secretary. FRANK BAILEY, Hartford, Mich.

3 EXTRA GOOD BULL CALVES FOR SALE. From the Maple Ridge herd of Bates Shorthorns. Calved in September 1920. J. E. TANSWELL, Mason, Michigan.

INHERITED SHORTHORN QUALITY Our pedigrees show a judicious mixture of the best blood lines known to the breed. Write to JOHN LESSITER'S SONS, Clarkston, Mich.

FOR POLLED SHORTHORNS

Shropshire, Southdown and Cheviot rams write to L. O. KELLY & SON, Plymouth, Mich.

FRANCISCO FARM SHORTHORNS AND BIG TYPE POLAND CHINAS Now offering:—Three bulls ready for service. Mastodon, Clansman, Emancipator breeding in glits bred for spring farrow. See them.

POPE BROTHERS CO

Mt. Pleasant, Michigan

FOR SALE FOUR REGISTERED DURHAM bulls from 8 to 10 months old. Also some fine female Durhams. HENRY J. LYNCH, Mayville, Mich.

SHORTHORNS COWS, HEIFERS, BULLS offered at attractive prices before January first. Will trade for good land. Wm. J. BELL, Rose City, Mich.

DUROCS AND SHORTHORNS, BRED GILTS, yearlings and two year olds, few good boars, bull calf 8 weeks old, good cow with heifer calf. Several bred heifers. P. B. LUDLOW, Rolling Prairie, Ind.

MILKING SHORTHORNS Bulls old enough for service, tuberculin tested and at bargain prices. W. S. HUBER, Gladwin, Mich.

RICHLAND SHORTHORNS

Special offer on two white yearling Bulls from IMP. Cows and sired by IMP. Newton Champion.

Also several other real Bull Bargains. Don't overlook these bargains.

C. H. Prescott & Sons

Tawas City, Michigan

BUY SHORTHORNS NOW, 4TH ANNUAL herd test without a reactor. Some bargains in bulls. JOHN SCHMIDT & SON, Reed City, Mich.

TWO REAL SHORTHORN HERD BULLS FOR SALE 15 mo. old and sired by Imp. Dainty Prince. W. W. KNAPP, Howell, Mich.

GUERNSEYS

GUERNSEY BULL CALF 7 MONTHS OLD, SIRE, Langwater Prince Charmante, A. R. 4 A. R. daughters average 416 lbs. fat 2-12 yrs. Dam: Lawton's Lady Lu, A. R. 416 lb. fat class A. A. (farmers class) 1 A. R. daughter, 409 lbs. fat D. D. Write MORGAN BROS., Allegan, R 1, Michigan

GUERNSEY BULL & BULL CALVES from dams making large A. R. O. Records. Accredited herd. Write for particulars. A. M. SMITH LAKE CITY MICHIGAN

REGISTERED GUERNSEYS 2 CHOICE HEIFER calves \$250. A choice bull calf very cheap. J. M. WILLIAMS No. Adams, Mich.

GUERNSEYS FOR SALE

Several good bulls, ages from five months to two and a half years. G. T. BRYCE, Romeo, Mich.

GUERNSEYS

OF MAY ROSE AND GLENWOOD BREEDING. No abortion, clean federal inspected. Their sires dam made 19,460.20 milk 909.05 fat. Their mother's sire's dam made 15,109.13 milk 778.80 fat. Can spare 3 cows, 2 heifers and a beautiful lot of young bulls. T. V. NICKS, R. 1, Battle Creek, Mich.

FOR SALE, GUERNSEY BULL, 1 YEAR OLD. Write for particulars to ECHO LODGE FARM R. F. D. 2, Watervliet, Mich.

REGISTERED GUERNSEY HEIFER CALVES for \$125 each delivered. Bull calves for \$50. Sires 5, nearest dams average 725 lbs. fat. PINE HILL FARM, R3, Howard City, Mich.

JERSEYS

REG JERSEYS HEIFERS 1 YR. OLD— Young cows in milk sired by Majesty's Oxford Shylcock 156,692 also young bull sired by Folic's Master Poyls 177,688, a grandson of Poyls 99th and Sophie 19th's Tormentor, two great bulls of the breed. Write for prices and pedigree. GUY C. WILBUR, R 1, Belding, Mich.

WORLD'S RECORD MADE BY JERSEY

A new world's record for all breeds for cows under two years of age has just been made by the Jersey heifer St. Mawes Lad's Lady No. 451563, owned in Oregon. She began her test 1 year, 11 mos., 23 days of age and produced in one year 11,756 lbs. of milk, \$29.09 lbs. of butterfat, 975.29 lbs. of 85 per cent butter. This is the second time the world's record for all breeds for a heifer under two years of age has been made by a Jersey in Oregon.

Jerseys are winners. Jerseys are ideal dairy cows. A pure bred Jersey bull is a money making investment. Think! Act!

Write

SECY HENDRICKSON

Shelby, Mich.

for free literature.

JERSEY BULL CALF

2 mos. old. Sire Roumetsa Raleigh Lad. Dam has made 2,317 lbs. milk, 106.58 lbs. fat in 60 days. A fine cow that combines show type and production. Price of bull \$75, crated and transferred.

YEAR OLD HEIFER

bred to Gamboges' Majesty Lad, a grandson of Sybils Gamboze that sold for \$65,000. Sire won 2nd prize at Ohio State Fair and sold for \$2,000. A full sister to her has made 1346 lbs. milk, \$0.76 lbs. fat in 60 days. Price \$125 crated and transferred. A. L. GRAY, Salesville, Ohio.

JERSEY BULL CALVES. Show type. From producers \$50 and up according to age. MILO H. EDISON & SON, R2, Grand Rapids, Mich.

JERSEYS

We offer a few young cows at \$125.00 each. Heifer calves \$75.00 delivered. Bull calves at \$50.00. All registered and transferred. Noble of Oaklands and Oxford Lad blood lines. M. A. O'BRIEN, Reedsville, Wis.

ONE OF OUR MAJESTY BULLS WOULD IMPROVE YOUR HERD. FRANK P. NORMINGTON, Ionia, Mich.

JERSEY BULLS AND BULL CALVES sired by a son of Sophie 19th Tormentor. J. E. MORRIS & SON, Farmington, Mich.

IF THE BULL IS HALF THE HERD, HOW much would a son of Poyls 99th's Duke 8th, who has 60 per cent blood of Sophie 19th, be worth to your herd?

Let me send you pedigrees and prices on bull calves from this bull and Sophie Tormentor cows. FRED HAYWARD, Scotts, Mich.

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WE WANT Beef Cattle Breeders & Feeders TO PROSPER AND MAKE MONEY. In truth the World's Best Beef is made at the lowest cost. If you have a Hereford Bull or herd. If you would produce your own feeding cattle—far better than you could buy. If we supply you cattle that are right. If you would feed cattle profitably.

SOTHAM'S EARLIRIPE BEEF PLAN Insures Your Success. Our System is the satisfying substance of 90 years conscientious service to the cattle industry of America by three generations of Sothams. GET THE FACTS. WRITE, RIGHT NOW; OR WIRE. Address

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Yearling bulls and bull calves, Beau Donald breeding. Also Duroc boars and gilts. J. C. THOMSON & SON, Parma, Mich.

ANGUS

DODDIE FARMS ANGUS of both sex for sale. Herd headed by Bardell 31910, 1920 International Jr. Champion. Dr. G. R. Martin & Son, North Street, Mich.

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PREMIUM BEEF PRODUCERS

Sired by Black Rosegay, third at Mich. State Fair and grand champion at Bay City, 1921. Young stock for sale. ANGUS HOME FARM, Davison, Mich.

REGISTERED ABERDEEN-ANGUS-BULLS, Heifers and cows for sale. Priced to move. Inspection invited. RUSSELL BROS., Merrill, Michigan

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FOR SALE—REGISTERED AYRSHIRE bulls and bull calves, heifers and heifer calves. Also some choice cows. FINDLAY BROS., R 5, Vassar, Mich.

RED POLLED

THREE YOUNG RED POLLED BULLS FOR sale. Sired by Opsy Ella Laddie. He took the prize at six State Fairs. PIERCE BROS., Eaton Rapids, Mich., R 1

25 RED POLLED CATTLE

Registered. All ages. E. S. CARR, Homer, Mich.

BROWN SWISS

FOR SALE OR TRADE

Some of the best Brown Swiss bull calves in this country. Priced right. Will guarantee them as I represent them or I will refund the money.

A. C. KLOSS

Ionia, Michigan.

FOR SALE FIVE REGISTERED BROWN priced right. T. H. LOVE, Howell, Mich., R. F. D. 3

SWINE

POLAND CHINA

FOR SALE, LARGE TYPE

POLAND CHINA

boar pigs. Sired by F's Clansman 391211, Michigan's 1920 Gr. Champion boar, and by Smooth Buster 895823, Michigan's 1920 1st Jr. Yearling Boar. Immune by double treatment. Priced to sell. Write or see them. Free livery to visitors. A. A. FELDKAMP, Manchester, R. R. No. 2, Mich.

WALNUT ALLEY

Big Type Poland Chinas. I have a few more of those big boned, high backed, smooth sided boars left. The kind that makes good at one-half their value. Come or write and let me tell you what I will do. A. D. GREGORY, Ionia, Michigan.

LEONARD'S BIG TYPE P. C. BOAR PIGS at weaning time. from Mich. Champion herd \$25 with pedigree. Satisfaction guaranteed. Call or write E. R. LEONARD, R 3, St. Louis, Mich.

L. T. P. C. \$15-\$20-\$25

We are offering our 1921 fall crop of pigs at the above prices. They are sired by Hart's Black Price and Right Kind Clan. F. T. HART, St. Louis, Mich.

GLADWIN COUNTY PURE BRED LIVESTOCK ASSOCIATION. Hereford, Shorthorn, Jersey and Holstein cattle; Duroc-Jersey, Poland-China and Hampshire hogs; Oxford, Shropshire and Hampshire sheep.

A place to buy good breeding stock at reasonable prices. FRED B. SWINEHART, O. E. ATWATER, President, Secretary, Gladwin, Mich.

BIG BOB MASTODON

Is sired by Caldwell Big Bob, champion of the world. His dam's sire is A's Mastodon, grand champion at Iowa State Fair, some breeding. Peter A. Pan is my new boar sired by Peter Pan, be by Peter the Great, Glover & Frank D. Winn herd, Kansas City, Mo. Some choice boars left sired by Big Bob. Priced low and guaranteed. 30 choice fall pigs, either sex. C. E. GARNANT, Eaton Rapids, Mich.

B T P C BOARS & GILTS

See sale at all times, at farmer prices. M. M. PATRICK, Grand Lodge, Mich.

BIG TYPE POLAND CHINAS

Spring pigs all sold. For fall pigs, write W. CALDWELL & SON, Springfield, Mich.

L. S. P. C. BOARS AT FARMERS' PRICES. H. O. SWARTZ, Schoolcraft, Mich.

BIG TYPE P. C. SPRING PIGS EITHER SEX from large growthy dams and sired by choice herd boars. Come and see our stock, price reasonable. L. W. BARNES & SON, Byron, Mich.

BOARS AT HALF PRICE BIG TYPE Poland Chinas bred in the purple, sired by Mich. Boster, A Giant and Butler's Big Bob. No better breeding. A big rugged, big-boned boar ready for service, registered, for \$25.00—\$30.00. JNO. C. BUTLER, Portland, Mich.

L TYPE P. C. TWO SPRING BOARS, ONE SOW \$25.00 each. Registered if sold this month. PLEASANT HILL FARM, Ewart, Mich., Route 3, Box 59.

HIGH CLASS POLAND CHINAS

Anything you want. Choice spring gilts and boars. Auction Sale Nov. 16. HOWLEY BROS., Merrill, Mich.

BIG TYPE POLAND CHINAS

Spring pigs of both sex for sale at reasonable prices. Sired by Oran's Clansman 2nd, litter brother to Michigan 1920 Gr. Champion. Also fall pigs. Write for prices. Immune by double treatment. MOSE BROS., St. Charles, Mich.

BIG TYPE POLANDS, by Big Giant and G-2 Ranger, largest boars of the breed. All gilt and herd boar prospects. Double Immatured. J. G. OLNEY & SONS, Smiths, Ind., Box M.

L. T. POLAND CHINAS, SPRING BOARS, gilts and weanling pigs. Write HAROLD LEONARD, Alma, Mich.

LARGE TYPE POLAND CHINAS

For sale, boars and gilts bred by F's Chinasman, grand champion at 1921 Mich. State Fair, and by F's Chinasman 1920, grand champion. Prices reasonable. Visitors welcome. Free livery from farms. Correspondence cheerfully answered. N. F. BORNOR, R. 1, Parma, Mich.

DUROCS

FOR SALE SEVERAL GOOD SPRING boars, also September and October pigs, either sex. Harley Foor & Sons, Gladwin, Mich., R. 1.

LOOK

Boar Pigs farrowed September 1921, weighing 75 to 100 lbs. bred by Unecoda Model Orion Dan's Defender, and Orion, \$12.50 while the last. Their Sire Grand Son of \$20,000 boar. V. LIDGARD, Mesquite, Mich.

DUROCS

Fall pigs bred by Orion Defender ready for fall shipment \$10.00 each or \$18.00 per pair including papers. Service Boars and Bred sows. LAPHAM FARMS, Pinckney, Michigan.

DURO SERVICE BOARS

\$20 to \$40. Bred sows and gilts \$30 to \$50. Fall pigs \$10 to \$15. All registered or eligible. We have one of the largest and best herds in state. Ample opportunity for selection. Michigan Farm, Pavilion, Mich. Kalamazoo Co.

FOR SALE REG. DUROC TRIED SOWS and gilts bred to Big John 17th & 650 lb. Jr. yearling. Double Immatured. JESSE BLISS & SON, Henderson, Mich.

PEACH HILL FARM

TRIED sows and gilts bred to or sired by Peach Hill Orion King 152489. Satisfaction guaranteed. Come look 'em over. Also a few open gilts.

INWOOD BROTHERS

Romeo, Mich.

AM OFFERING SOME HIGH CLASS

SPRING DUROC BOARS

at reasonable prices. A few gilts bred for September farrow at bargain prices. W. C. TAYLOR, Milan, Mich.

FOR SALE DUROC PIGS, 4 to 6 months old, either sex, big bony, prolific strain, superior individuals and breeding. Price reg. 15 to 20 dollars. Satisfaction or money back. WEST VIEW FARM, Hillsdale, Mich. E. E. Kies, Prop.

PURE-BRED DUROC JERSEY HOGS

We usually have good boars and sows of all ages for sale. Reasonable prices. LARRO RESEARCH FARM, Box A North End Detroit, Michigan.

DUROC JERSEY BOARS. Boars of the large, heavy-boned type, at reasonable prices. Write or better, come and see. F. J. DRODT, R. 1, Monroe, Mich.

FOR SALE—REG. DUROC JERSEY SWINE. A few real boar and sow pigs by Michigan Grand Champion Boar and from prize winning dams. Also a few fall pigs either sex, sired by 5th aged boar Detroit and 2nd at Saginaw. All stock double immune except fall pigs. Satisfaction guaranteed. F. HEIMS & SON, Davison, Mich.

Duroc Jersey Bred Stock all sold. Orders taken for venting pigs. 1,000 pound herd boar. JOS. SCHUELLER, Weldman, Mich.

OAKLANDS PREMIER CHIEF

Herd Boar—Reference only—No. 129219

1919 Chicago International

4th Prize Jr. Yearling

BOOKING ORDERS FALL PIGS AT \$25. BLANK & POTTER, Potteryville, Mich.

HIGHLY-BRED DUROCS, YOUNG BOARS and gilts bred by Brookwater Demonstrator 27, 2nd prize aged boar, State Fair 1921. H. E. LIVERMORE & SON, Romeo, Mich.

DUROCS ANYTHING YOU WANT AT Farmer's prices. G. L. FOWER, Jerome, Mich.

FOR SALE—BROOKWATER PRINCIPAL 33rd 2 1/2 years old, right in every way. J. E. MORRIS & SON, Farmington, Mich.

WE OFFER A FEW WELL-BRED SELECTED spring Duroc Boars, also bred sows and gilts in season. Call or write. McNAUGHTON & FORDYCE, St. Louis, Mich.

Durocs: H.H. Coast Farms. Bred and open sows and gilts. Boars and spring pigs. 100 head. Farm 4 miles straight S. of Middleton, Mich. Gratiot Co. Newton & Blank, Perrinton, Mich.

Duroc sows and gilts bred to Wolf's King 32949 who has sired more prize winning pigs at the state fairs in the last 2 years than any other Duroc boar. Newton Barnhart, St. Johns, Mich.

FOR SALE DUROC SERVICE BOARS and gilts. Open or bred to A Model Orion King. Call or write. CHAS. F. RICHARDSON, Blanchard, Mich.

FOR SALE: ONE DUROC BOAR FROM Brookwater breeding stock. Choice spring pig. JOHN GRONENWETT, Canistota, Mich.

O. I. C.

O. I. C. & CHESTER WHITE SWINE. SPECIAL 10 day sale at reduced prices. High backed smooth Aug. and Sept. pigs. Bloodlines of Advance Type, Schoolmaster and Special. They are sure to please, write me before you buy. I can save you money. Clara V. Dorman, Snover, Mich.

O. I. C.'S SERVICE BOARS, SPRING PIGS at Farmer's prices. CLOVER LEAF STOCK FARM, Monroe, Mich.

O. I. C. SWINE—MY HERD CONTAINS THE blood lines of the most noted herd. Can furnish you stock at "live and let live" prices. A. J. GORDEN, Detroit, Mich., R. 3.

HAMPSHIRE

An Opportunity To Buy Hampshire Right

We are offering some good sows and gilts, bred for March and April farrowing. Also a few choice fall pigs, either sex. Write or call. GUS THOMAS, New Lothrop, Mich.

HAMPSHIRE

Bred gilts, bred sows, fall pigs, bargain prices. M. E. OSBORNE, Sun Haven Farm, Standish, Mich.

HAMPSHIRE PLACE YOUR ORDER NOW for bred gilts and fall pigs of the leading blood lines. 9th year. JOHN W. SNYDER, R-4, St. Johns, Mich.

SHEEP

FOR SALE AMERICAN MERINO and Black Top Delaine rams. Purebred Berkshire boars, true to type and ready for service. JOHN W. WORTHINGTON, Howell, Mich.

SHROPSHIRE EWES MIDDLE AGED, registered and bred, for sale cheap, only 5 to sell. DAN BOOHER, Ewart, Mich., R. 4

SHROPSHIRE OF QUALITY LAMBS and Yearling Rams. DEWITT C. PIER, Ewart, Mich.

FOR SALE REGISTERED SHROPSHIRE ewes bred to lamb in March or April. ARMSTRONG BROS., R2, Fowlerville, Mich.

HAMPSHIRE SHEEP

A few good yearling rams and some ram lambs left to offer. 25 ewes all ages for sale for fall delivery. Everything guaranteed as represented.

CLARKE U. HAIRE, West Branch, Mich.

REGISTERED RAMBOUILLET RAM

Breeding and individuality. Ranging from one to four years old. ROBERT J. NOON, Jackson, Mich., R. 9.

PET STOCK

FOR SALE, FLEMISH GIANT RABBITS, DOES, breeding age, \$6. Three months old pair, \$5. Registered does \$12 each. Stock pedigreed. Quality guaranteed. E. HIMEBAUGH, Caldwellwater, Mich.

FOR SALE, SCOTCH COLLIE PUPPIES 3 months old and fine ones, \$3, male or female. THOS. STANFIELD, Hillsdale, Mich., R. 1

Crop Reports

Eaton—Have about 6 inches of snow. No frost in ground. Corn nearly all secured. The principal question now is to find some way to pay taxes. They run from 2 1/2 to 3 per cent on assessed valuation. Many farmers will not come out even and will be forced to borrow their tax money. Times will not improve until farmers get the cost of production and a profit.—C. F. L., Dec. 16.

Midland—We have about five inches of snow with prospects of more in the near future. Roads are in pretty good condition. Not very cold. Some building being done.—C. L. H., Dec. 15.

Monroe (N. E.)—Farmers are busy finishing corn husking, cutting wood and doing chores. Have a nice layer of snow on ground but the ground is not frozen. Wheat went into winter in good shape, except a small part which was sown too late and is small. Not much going to market as prices are down and roads bad. No building going on. All you can hear is "how are we going to pay taxes."—Geo. L. Syde, Dec. 14.

Lemawate—Not very much doing and yet farmers all seem to be busy. Husking not all done yet. Snow fall stopped fall plowing. Prices low on nearly everything. C. H. Snedden purchasing agent for Tecumseh Grange has ordered car of cedar fence posts for farmers. All churches in village making preparation for Christmas.—C. H. S., Dec. 16.

Saginaw (W.)—Farmers have their fall plowing well done. Crops nearly all sold. Stock looks good. Tax time is here and they will be hard to pay as prices are so low. Fall wheat is looking fine. No frost and very little snow. Sun is bright and weather is warm.—Harvey T. Hill, Dec. 15.

St. Joseph—Farmers are shredding fodder and butchering. Some husking to do yet. Snowing some now. Ground not frozen. Some farmers have plowed quite a bit of grain. Not selling very fast, only enough for taxes and hogs fairly well. Sales about over with and articles not selling overly good. Grain and potato show in Centerville last week. Short Course in Three Rivers by agriculture class 12-13th. School and community meeting in Centerville 14th. New farmers' elevator at Colon doing fine business. Big road meeting next week in town hall.—W. W., Dec. 14.

Jackson—Weather unsettled. Ground covered with snow. A few farm bureau meetings. Not much enthusiasm. Taxes somewhat lower than last year. Pop corn growers are going to get together this week and make some plans to dispose of their pop corn, if the factory does not pay cash for the crop. Not many farmers feeding steers this winter. Turkeys scarce. Not many turkeys raised this year. Buyers paying 12 cents for chickens.—G. S., Dec. 12.

Washtenaw—Fine weather with about 2 inches of snow on ground. Everyone getting ready for Xmas. Not many auction sales this fall. Not much hay. Most farmers will be short of feed for their horses. Farmers are not having as many oats ground here at the grist mill as last year.—H. C. Ringle, Dec. 16.

Arenac—Severe snow and rain storm past week; worst of the year. The late depression causing lots of uneasiness thru the county. Some farms changing hands. Auction sales cheap; taxes high.—M. B. Russell, Dec. 16.

Alpena—Snowed quite hard all day today. Lots of hunting going on. The foxes are getting plentiful around here. Farmers are still at the wood. Quite a few farmers are buying coal and saving their wood for somebody else. Coal is selling around about \$7.50 and \$8.00 average up here. The different districts are finishing up this year's road work and doing some of next year's also. Not many if any sales going on. Taxes are higher all around. No building going on. Not much grain being sold. Potatoes not advancing much.—O. R., Dec. 16th.

St. Clair—Farmers not doing much at present. The weather is very mild. The soil is in fine condition for plowing as the ground is not frozen to any extent. Wheat and rye are looking fine and actually grew through November. All markets are sluggish except for butter and eggs which readily find a quick sale, money is tight, business is slow and lots of men out of employment. The good roads building is suspended for a time.—Isaac Justin, Dec. 12.

Berrien—Has been very warm for this time of year with much rain and a very little snow. Soil thoroughly soaked; too wet to plow. Wheat and rye looking fine. Farmers are beginning to skimpish around to raise tax money; taxes very high and the poor season has left many farmers ill prepared to pay them. Beef cattle, hogs, chickens, etc., are being disposed of at almost a loss. Not much hay or grain being sold now.—O. C. Y., Dec. 16.

AN ANALYSIS OF THE FOUR ESSENTIALS OF FARMING

(Continued from page 3)

the United States has said that of the different departments of a business the sales is the most important for only through sales can income arise. Is this not true of agriculture? The demands of the market should be studied and production planned to meet that demand.

As in all new movements, many ideas have sprung up in connection with this development of the study of farm business. Some have analyzed the problem in one way. Some in another. Various remedies have

been suggested. Many workers in the field are groping in the dark—yet they are doing a real bit of service because they are directing attention to the study of the problem.

The purpose of this series of articles will be to bring before the readers of the M. B. F. some of the fundamental principles of economics as they apply to agriculture. It is not intended that solutions of problems will be attempted but rather will a study be made of existing conditions. One of the great essential facts that the people of America must realize is that they are living in an economic society which is the making of no one class of people but the result of the composite action and motives of all of the people. Whether we believe that the present system is ideal or not is not of great significance. If we ever get any place in the improvement of conditions for these now living and the immediate future generations we must take into consideration the fact that we have to deal with conditions as they are and not as we would like them to be. So in this series of articles the theory of the idealist will not be presented but rather will these discussions consist of a study of the existing economic conditions.

LAKE ODESSA HOLSTEIN SALE A GREAT SUCCESS

There are abundant indications that conditions are turning for the better in connection with the breeding and sale of pure-bred live stock. The auction sale of Holstein-Friesian cattle held at Lake Odessa, on Friday, Dec. 16, was the most successful auction offering of pure-bred cattle that has been made this year. Extremely unpleasant weather was offset by the fact that the cattle offered were of outstanding quality, the attendance large and the auctioneer, Col. D. L. Perry, of Columbus, Ohio, at his best. The competition for the ownership of the animals offered was decidedly active throughout the sale, the bidding was spirited and the time consumed in the sale of each animal much less than had been the rule at the auction sales that had been held earlier in the season.

A seven-year-old cow, Weedle Queen De Kol, with a record of 34.73 pounds of butter fat in seven days and a daughter of hers, Lakeside Pontiac Queen, 2 years and 4 months old, each brought \$1,500. These two grand cows were bought by E. M. Payne, of Detroit, and will be added to the herd which he is establishing on his farm, north of Romeo, Mich.

The average of the cattle, that were more than one year old, was \$693.75. There were 13 animals sold that were less than one year old and the average of these was \$211.50. A young bull calf, the daughter of Lakeside Pontiac Queen, brought \$380. A bull, nine months old, brought \$900. The total number of cattle sold at the sale was 41 head.

The names and addresses of the buyers are as follows: H. E. Rising, Woodland, Mich.; Detroit Creamery Co., J. B. Jones, Detroit; W. L. Hoffman, Flint, Mich.; George Coppes, Sunfield, Mich.; J. M. McElwain, Hastings, Mich.; Hall Bros., Belding, Mich.; E. M. Bayne, Detroit; Otto F. Fisher, Caledonia, Mich.; Dr. R. H. Crissy, Lansing; R. W. Cook, Hastings; Frank Staffer, Lake Odessa; Clare Elgg, Lake Odessa; Sindlinger Bros., Lake Odessa; Herbert Edwards, Fendwick, Mich.; Forest Deatman, Lake Odessa; Andy Rirr, Lake Odessa; George Lutz, Lake Odessa; George Aldrich, Ionia, Mich.; William Jordan, Woodland, Mich.; Austin Schaunty, Lake Odessa; Gordon Warner, Dimondale, Mich.; Jordan Bros., Woodland, Mich.; Nathan Todd, Clarksville, Mich.—H. H. Mack.

PICK OUT THE BARGAINS NOW

There are some products that have been so far reduced in recent months that unless a prospective buyer takes advantage of these prices now he is likely to find the opportunity gone by. When he comes to buy later it will be but to find that he waited too long, and that prices had got past their low point and have begun to climb higher. For this reason the farmer who is wise enough to pick out the bargain these days is going to have a feeling of satisfaction later on that will not be felt by the fellow who put it off too long.

Among the outstanding bargains placed before the farm buyer just now is the well known Lalley-Light and power plant, electric lighting plant which a short time ago was sold for \$625 can now be bought for \$295, it looks as if a real bargain is on the counter.

This plant has gone through 12 years' test, is approved by fire underwriters and can be had on thirty days' trial. Any one at all interested (and every farmer should be), would do well to write for free literature which will give him some worth-while information. A letter addressed to W. H. Lalley, President, the Lalley-Light Corporation, Department 30, Detroit, Michigan, will bring this literature and places you under no obligation whatever.

Montreal's grain shipments reached the high record of 110,000,000 bushels to the end of October this year and probably 25,000,000 bushels more will be shipped. The previous high record was 75,631,329 bushels in 1914, excluding rye. This year's total comprises in round numbers 42,000,000 bushels of wheat, 27,000,000 of corn, 17,000,000 of oats and the rest of rye.

HORSE SALE

Friday, January 13th, 1922, 10:00 A. M.

STOCK JUDGING PAVILION

MICHIGAN AGRICULTURAL COLLEGE

Registered Percherons, Belgians and Clydesdales, Stallions and Mares

A FEW HIGH CLASS WORK HORSES

MICHIGAN HORSE BREEDERS ASSOCIATION

Auctioneers: J. P. Hutton
Andy Adams

R. S. HUDSON, Secretary.

COLT SHOW

3:00 P. M., January 12th, 1922

POULTRY BREEDERS' DIRECTORY

Advertisements inserted under this heading at 50 cents per line, per issue. Special rates for 12 times or longer. Write out what you have to offer and send it in, we will put it in type, send proof and quote rates by return mail. Address The Michigan Business Farmer, Advertising Department, Mt. Clemens, Michigan.

POULTRY

DAY OLD CHICKS

HOMESTEAD FARMS

LEGHORNS

We are issuing a Bulletin that describes the kind of a fowl the farmer now days wants. Send for this description of our Pure Breed Practical Poultry. The highest class practical stock in Michigan; stock that each year is also now being shipped to poultry farmers of other states. You will like particularly the White, Brown, and Buff Leghorns of this breeding; they give the eggs. Also Barred and White Rocks, Reds, Wyandottes, Orpingtons, Anconas.

DESK 2 STATE FARMS ASSOCIATION
Kalamazoo, Michigan

Baby Chicks, Eggs—Leghorns, Rocks, Reds, Wyandottes, Orpingtons, Catalogue free. **GOSHEN POULTRY FARMS**, R. 21, Goshen, Indiana.

FOR SALE—SILVER SPANGLED HAMBURG Cockerels, \$2.00 each. **ROSEDALE FARM**, Port Huron, Mich., R. 1, J. G. Philpott.

PURE BRED COCKERELS FOR SALE
S. C. White Leghorns, S. C. Brown Leghorns, Silver Campines, at \$1.50. S. C. White and Buff Orpingtons, Houdans, White Face Black Spanish, Partridge Wyandottes, \$2.00 each. **MAPLE WOOD POULTRY FARM**, Benjamin Scott, R. 1, Bannister, Mich.

MUD WAY AUSH-KA FARM
offers young stock and a few mature breeders in White Chinese Geese, White Runner Ducks and White Wyandottes. Also O. I. C. spring glits. Write today for prices on what you need. **DIKE C. MILLER**, Dryden, Mich.

TOP QUALITY COCKERELS—MINORCAS, Houdans, Rocks, Reds, Orpingtons, Spanish. **TYRONE POULTRY FARM**, Fenton, Mich.

W CHINESE GEESE, PEKIN DUCKS, R. C. Br. Leghorns, **MRS. CLAUDIA BETTS**, Hillsdale, Mich.

PLYMOUTH ROCK

BUFF ROCKS Quality Bred—By us for 30 years. Hundreds of big husky cockerels and pullets; solid color—famous "Hogan" tested heavy layers. **BIG TYPE, BRONZE TURKEYS** Massive old and pullets by 1st Chicago and Cleveland winners. Our exports to Europe and So. America recently proves their quality. Large White African Guinea, any number. **J. C. CLIFF & SONS**, Box M, Saltillo, Ind.

BARRED ROCKS Surplus breeding stock all sold. More Hatching eggs next spring. More Cockerels next summer and fall. From stock from Parks best pedigreed pens. **R. G. KIRBY**, Route 1, East Lansing, Mich.

BARRED ROCK Cockerels, Hills heavy laying strain, deep, narrow, barring. Large birds \$4 and \$5 each. **Lucien Hill**, Tekonsha, Mich.

KNIGHTS BREED TO LAY WHITE ROCKS Hens, pullets, cockerels, at farm prices. **ROBERT E. KNIGHT**, New Baltimore, Mich.

LEGHORNS

SINGLE COMB BUFF LEGHORN COCKERELS, April and May hatched. Heavy laying strain. **J. W. WEBSTER**, Bath, Mich.

LEGHORNS

Single Comb Buff Leghorn Cockerels \$3. to \$5.00 each. Hens and pullets \$2.50 to \$5.00 each. Will start shipping Baby Chicks in March. **LAPHAM FARMS**, Pinckney, Michigan.

R. C. BR. LEGHORN YEARLING HENS FOR SALE, Pure bred, **MRS. JOHN EDGERTON**, R. 2, Yale, Mich.

R. C. BROWN LEGHORN COCKERELS, KULP strain, \$2.50 for one bird, \$2.00 each for 2 or more. **W. E. CUMMINGS**, Coleman, Mich.

GRABOWSKA'S S. C. WHITE LEGHORNS, Cockerels and cocks for sale. **L. G. GRABOWSKA**, Merrill, Mich., R. 4

WYANDOTTE

C. W. CASE
ROCHESTER MICH.
WHITE WYANDOTTE SPECIALIST
offers strictly high-grade young and old stock at popular prices. Correspondence solicited.

WHITE WYANDOTTES

Martin Foundation. A few good breeders for sale. No more baby chicks this year. Order cockerels now for early fall delivery. Prices reasonable.

C. W. HEIMBACH
Big Rapids, Mich.

DUCKS

DUCKS FINE WHITE PEKINS AND PURE MALLARDS. **R. P. KINNEY**, Okemos, Michigan R1

DUCKS

DUCKS

DUCKS

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DUCKS

DUCKS

BUSINESS FARMERS' EXCHANGE

50 A WORD PER ISSUE—3 insertions for 10c per word. Farm for sale ads. not accepted for less than 3 times. Twenty words is the minimum accepted for any ad. in this department. Cash should accompany all orders. Count as one word each initial and each group of figures, both in body of ad. and in address. Copy must be in our hands before Saturday for issue dated following week. The Business Farmer Adv. Dept., Mt. Clemens, Michigan.

FARMS & LANDS

160-ACRE MICHIGAN FARM WITH 4 horses, implements, 10 cows, vehicles, feed for winter, etc. included; amidst prosperous farmers, excellent markets; short walk RR, stores, church, etc. 100 acres rich loamy tillage, part muck, balance brook-watered pasture and woodland; lots fruit, good 6-room house overlooking lake, 80-ft. basement barn, poultry house. Retired owner sacrifices all \$6500, less than half cash, easy terms. Details page 74. **Illus. Catalog 100 Bargains FREE, STROUT FARM AGENCY**, 814 B E Ford Bldg., Detroit, Michigan.

WANTED TO RENT A FARM IN NORTH and Michigan. Describe land, location, terms etc. Write **LEWIS LEBSTAFF**, Dundee, Mich.

FOR SALE, 160 ACRES AT FOUR DOL are an acre Nine miles east of Bay Minette, Alabama. **C. C. AMSTUTZ**, Justus, Ohio, R1

EXTRA GOOD 140 ACRES 1 MI. FROM County Seat. Hard roads, excellent buildings, good soil. Write for price, etc. **RUDOLPH HASSLER**, Sandusky, Mich., R-4.

SMALL FARM 1 1/2 ACRES, LOCATED AT Mt. Clemens, Michigan. Modern eight room house in good shape. Large barn, chicken house, cherry trees, raspberry bushes, etc. Fifteen minutes walk to City Hall. Good soil, and an excellent place for poultry raising. Willing to sacrifice for cash. **BOX T, Care of Michigan Business Farmer**, M. Clemens, Michigan.

68 ACRE FARM FOR SALE, MOSTLY ALL cleared. Fair frame house, new barn built last year, \$2446; frame granary 14x20, good well 280 feet deep; well drained, good ditches and fences; clay and black loam land; good road, mail route, schools and churches. Located in Bay county, Garfield township, Section six. With horses, cattle and implements if wanted. **MARTIN SMITH**, R 1, Rhodes, Mich.

BEST FARM IN OSCEOLA COUNTY 120 acres clay loam slightly rolling, 1/2 mile from Marion. 15 acres fruit trees, apples, pears, plums and cherries. Full basement barn 44x70 Hood Roof, double track, water in basement. tile sile 12x28, tool house, garage and small barn. If you want a nice home and a good bargain write **THOMAS WHITE**, Marion, Mich.

140 ACRES, BEST SOIL, FINE BUILD- ings. Fruit, wood, 45 miles from Detroit. State road. Stock and tools if wanted. \$1500.00 handles. **A. O. HARLOW**, Metamora, Mich.

PRODUCTIVE LANDS. CROP PAYMENT OR easy terms. Along the Northern Pacific Ry., in Minnesota. North Dakota, Montana, Idaho, Washington and Oregon. Free literature. Say what state interests you. **H. W. RYERLY**, 90, Northern Pacific Ry., St. Paul, Minn.

MISCELLANEOUS

MACHINERY

NEVER-KLOG SAW DUST BLOWER. Guaranteed five years. Cash or easy terms. Write for circular. **HILL-CURTIS CO.**, 1507 No. Pitcher St., Kalamazoo, Mich.

TOBACCO

TOBACCO: KENTUCKY'S PRIDE, MILD AND mellow. Best chewing or smoking, 10 lb. \$3.00; 20 lb. \$5.00. **FARMERS CLUB**, Mayfield, Ky.

FINE CHEWING AND SMOKING TOBACCO Long silky leaf, rich and mellow. 10 pounds \$2.50. For mild smoking 10 pounds \$2.00. **ADAMS BROTHERS**, Bardwell, Ky.

TOBACCO, KENTUCKY'S NATURAL LEAF Smoking 10 lbs. \$1.75. Hand selected chewing 3 lbs. \$1.00. Free receipt for preparing. **WALDROP BROTHERS**, Murray, Ky.

COMING POULTRY SHOWS

Zeeland, Dec. 29-Jan. 2, 1922. C. J. De Koster.
Grand Rapids, Jan. 3-6, Alfred Ham-mah, Jr.
Holland, Christmas week, Edward Brouwer.
Pontiac, Jan. 16-21, A. D. J. Shimmel, R. No. 1.
Chicago National, Jan. 11-17, D. H. Hale, 349 West 65th St.

WHAT ARE YOU IN THE MARKET FOR?

USE THIS COUPON

Every reader of M. B. F. will be in need of one or more of the following items this season. Check below the items you are interested in, mail it to us and we will ask dependable manufacturers to send you their literature and lowest prices free and without any obligation on your part.

| | | | |
|-------------------|------------------|-------------------|---------------------|
| Automobiles | Dairy Feed | Hog Feeders | Shoes |
| Auto Tires | Dynamite | Incubators | Stoves |
| Auto Supplies | Ensilage Cutter | Lumber | Stump Puller |
| Auto Insurance | Fanning Mill | Lighting Plants | Seeds |
| See Supplies | Fertilizer | Lightning Rods | Sprayers |
| Berry Baskets | Fur Buyers | Limestone | Silo |
| Building Supplies | Farm Lands | Manure Spreader | Spray Materials |
| Bicycles | Ford Attachments | Motorcycles | Tanners |
| Blender | Furniture | Motocycles | Thresher |
| Barn Equipment | Feed Cutter | Milking Machine | Truck |
| Bean Thresher | Furnace | Mantel Lamp | Tractor |
| Chemical Closets | Gas Engine | Nursery Stock | Tank Heaters |
| Cultivator | Guns | Poultry Supplies | Veterinary Remedies |
| Corn Parer | Grain Drill | Paint | Wagons |
| Clothing—Men's | Hog Collars | Pumps | Water System |
| Clothing—Women's | Harrows | Pipes | Washing Machine |
| Concrete Mixer | Harvesters | Potato Machinery | Windmill |
| Drain Tile | Hay Rakes | Roofing Machinery | Wire Fencing |
| | Hay Presses | Sawing Machinery | Wool Buyers |
| | Hog Oils | Stock Feed | |

(Write on margin below anything you are interested in not listed above.)

Name

Address

THE MICHIGAN BUSINESS FARMER, Mount Clemens, Mich. Clemens, Michigan.

COMMISSION HOUSES

SHIP YOUR POULTRY, VEAL, EGGS, ETC. to C. Quinlan, 9 Fulton Market, Chicago. One rect weights, prompt returns and highest prices guaranteed. Established 1878. Write for terms and quotations; modern cooling rooms.

HIGHEST PRICES PAID FOR LIVE AND dressed poultry, wild rabbits, veal, eggs, etc. A square deal always. **C. E. McNEILL & CO.**, 325 W. So. Water St., Chicago, Illinois.

FILM DEVELOPING

KODAK FILMS DEVELOPED AND SIX prints, 25c. **MODERN PHOTO WORKS**, Box M. R. F., La Crosse, Wis.

KODAK FINISHING! NOT THE CHEAP way, but the best, at a reasonable price. Mail us a trial order and prove to yourself that it is not only what you pay but what you get for what you pay. Our aim always has been and always will be, "the very best prints from every negative." **MOEN PHOTO SERVICE**, Quality Kodak Finishing, Box M. R. F., La Crosse, Wis.

GENERAL

BUY FENCE POSTS DIRECT FROM FOR- est. All kinds. Delivered prices. Address "M. M." care Michigan Business Farmer, Mt. Clemens, Mich.

FOR SALE: TWO CARLOADS OF CHICKS Alabama hay. **N. AYERS & SON**, Silver Spring, Mich.

REWARD: FOR THE LARGEST LIST OF names and addresses we will give a set of Rogers knives and forks; for second largest list will give solid silver souvenir spoon. Closes Jan. 15th, 1922. **ORCHARD LODGE NURSERY**, Galesburg, Mich.

GOVERNMENT CLERKS NEEDED—(MEN- women); \$1400-\$2000; permanent; few to travel; expense allowance. Write Mr. Orment, Former U. S. Government Examiner, 355 St. Louis, Mo. He gives reliable information.

WE SELL NEEDLES, PARTS AND RE- pair all makes sewing machines. Let us know your troubles. We can help you. **De STEIGER MUSIC CO.**, Mt. Clemens, Mich.

OLD TRUSTY INCUBATORS, SLIGHTLY used, 150 egg size, \$20 freight paid. Cost \$28 new. **GORET BROS.**, Corunna, Mich.

AGENTS TAKE ORDERS PRIVATE FAN files \$40 weekly guaranteed. Commission spare time. We deliver and collect. **CONSUMERS HOSEERY CO.**, 724 A City Hall Station, New York.

MEN'S FOUR-BUCKLE ARCTICS—PER- feet, best grade, makers only, sizes 6 to 12, all rubber \$2.95, Cloth tops \$3.45. **DAVIS BROTHERS**, Lansing, Michigan.

1000 NO. 2 CONCORDS 1c EACH, TILL surplus reduced only. Larger sizes reasonable. Why pay agents double? Write **GORLEVILLE, MICH., NURSERIES**.

PURE CLOVER HONEY, \$2.00 WILL bring a ten lb. pail to your door, and \$3.00 a 60 lb. can to your station. Produced in the rich cloverfields of Huron County, by the **Bloomfield Apiaries, ED. STEWART**, Farm, Port Hope, Michigan.

FANCY SHELLED PEANUTS 4 lbs. \$1.00 prepaid. Crisp, crunchy, delicious. Great fun roasting them. Recipes for candies and salad peanuts included. **CHESTERFIELD PLANTATION**, Norfolk, Virginia.

BREEDERS' ATTENTION

If you are planning on a sale this year, write us now and

Claim The Date!

This service is free to the live stock industry in Michigan to avoid conflicting sale dates.

LET "THE BUSINESS FARMER" CLAIM YOUR DATE!



MARKET FLASHES



TRADE AND BUSINESS REVIEW

AS the end of the year approaches, business prospects are brightening in all departments of human endeavor. Roger Babson reports a gradual increase in the volume of purchasing; the retail sales for November and thus far in December, indicate a trade equaling fully 80 per cent of the same month's showing last year. The outlook in the textile districts of the east is improving rapidly, the demand for woolen goods showing more activity than for a long time. Christmas buying, along all lines is just about equal to that of last year; increased activity in this department of the trade is expected as the holiday draws nearer. Selling prices for nearly all staple commodities are gradually working higher; cotton is firm and steady, wool is firm but hardly so active as on this day last week.

Steel and pig iron are firm but rather dull with only a few new orders asking for immediate delivery. Business experts, the world over, are looking for a gradual recovery beginning with the advent of the new year and becoming normal time in September, next year. The stock market continues strong as to values but hardly as active as on the opening of the current month. The demand for bond issues is not nearly as strong as formerly, probably, owing to a widespread belief that, sooner or later, the status of many of the issues, that are at present exempt from taxation will be changed by the enactment of a law placing these securities on the tax rolls.

As time goes on it becomes more and more apparent that thousands of our western and middle west farmers must be given adequate extension of credits or they will be forced into bankruptcy. The War Finance body has just finished the placing of another seven million dollars in loans; this organization has placed a large amount of money with farmers but when it is all summed up it is but a drop in the bucket. There is need for a refunding system in connection with the farmer's obligations, which will give him time to meet his debts. The farmer is not asking for charity but in view of the tremendous odds against him, he simply pleads for time in which to earn and save money enough to pay off his pressing obligations and a little left to help to finance his new farming enterprises.

WHEAT

The close of the year finds the grains dull and inactive. Wheat

| WHEAT PRICES PER BU., DEC. 20, 1921 | | | |
|-------------------------------------|---------|---------|----------|
| Grade | Detroit | Chicago | N. Y. |
| No. 2 Red | 1.19 | 1.10 | 1.28 |
| No. 2 White | 1.19 | | |
| No. 3 Mixed | 1.19 | | 1.14 1/2 |

gained some last week from the low of the previous, but lost all of the gain and is down to \$1.19 on the Detroit market. We look for wheat to sink still lower before the first of the year. Most of the news is bearish and the holidays are never friendly to a bull movement. Drought still prevails in many parts of Kansas and Nebraska though other sections of the grain belt have received copious rains and the outlook is better. Harvesting is in full swing in the southern hemisphere, but no official estimates are yet available of the yield. Elsewhere growing conditions have improved and there is a promise of larger wheat crops the coming year. Both domestic and foreign demand are at a low ebb, the visible supply is still large and the immediate outlook is not encouraging. Still there are many who insist that the present condition of the market is not due to any surpluse of wheat, that the world is really on a starvation basis, and that very much higher prices are in prospect before another harvest. The end of

Edited by H. H. MACK

MARKET SUMMARY

All markets show normal holiday season dullness. Little interest in grains, beans or potatoes. Prices steady with downward tendency in the grains. Poultry market steady and supplies appear to be adequate for holiday needs. Detroit egg and butter market firm, arrivals of fresh eggs on increase. Packing house strike threat depressing live stock values. Better tone in all markets anticipated with beginning of New Year.

(Note: The above summarized information was received AFTER the balance of the market page was set in type. It contains last minute information up to within a 30-half hour of going to press.—Editor.)

the year is a poor time to judge the future of any market, so perhaps the least said the better.

CORN

The corn market was inclined to show weakness last week owing to

| CORN PRICES (new) BU., DEC. 20, 1921 | | | |
|--------------------------------------|---------|---------|--------|
| Grade | Detroit | Chicago | N. Y. |
| No. 2 Yellow | | 48 | 65 1/2 |
| No. 3 Yellow | 52 1/2 | | |
| No. 4 Yellow | 50 1/2 | | |

heavy receipts and prices declined from 1c to 2c the country over. Receipts at primary points were the largest in 10 years and considerable was sent to store. The total amount received at Chicago amounted to 5,506,000 bushels, against 1,324,000 bushels a year ago. Domestic demand was of fair volume and exporters were regular purchasers in the market. Dealers are not trying very hard to sell their stocks as they are looking for a heavy demand this winter especially from Europe and it is their belief that prices will make a turn upward before long. The market is full of those who believe in higher prices but the liberal receipts turned the market against them last week. Roads are getting in bad condition and no doubt the movement from farm to market will soon show a decline. On Monday of the present week receipts continued large and prices declined at Detroit but the strength in wheat caused the Chicago market to gain. Export business is fine.

OATS

Oats will not reach the 50-cent mark as we have been predicting, by the first of the year. The failure of the market to respond to the known shortage of supplies has merely been in keeping with the general sluggish tone of all grain markets the past several months, and the huge vis-

ible supply. The supply is dwindling and the holdings of good oats on farms are the smallest in many

| OAT PRICES PER BU., DEC. 20, 1921 | | | |
|-----------------------------------|---------|---------|--------|
| Grade | Detroit | Chicago | N. Y. |
| No. 2 White | 39 | 37 | 46 1/2 |
| No. 3 White | 38 1/2 | 34 1/2 | |
| No. 4 White | 38 1/2 | | |

years, and this market must come back strong before another harvest.

RYE

There was a weak period in the rye market also last week and the price declined to 87c at Detroit and 83c at Chicago for No. 2. The market is steady at the present and prices promise to advance.

BARLEY

A slightly easier tone is shown in the barley market but otherwise conditions are the same. The prices declined some last week at Chicago going to 51 and 52c per bushel, while the Detroit market remained at \$1.10 @ 1.30 per cwt.

BEANS

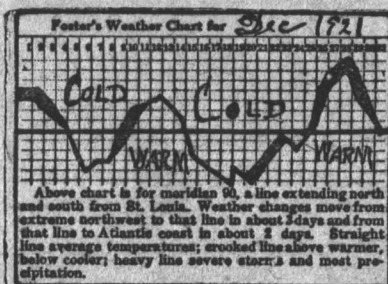
Beans are holding their own and the market is firm, with no import-

| BEAN PRICES PER CWT., DEC. 20, 1921 | | | |
|-------------------------------------|---------|---------|-------|
| Grade | Detroit | Chicago | N. Y. |
| O. H. P. | 4.90 | 4.87 | 5.20 |
| Red Kidneys | | 7.50 | |

ant price changes. Higher potatoes would probably result in higher beans, but with so many men out of employment it is impossible for forecast such high prices as would be inevitable on such short crops if times were normal. However, the bean is still a very cheap and popular article of diet, and cannot long remain at their present low level.

THE WEATHER FOR NEXT WEEK

As Forecasted by W. T. Foster for The Michigan Business Farmer



WASHINGTON, D. C., Dec. 22, 1921.—During last week in December a series of bad storms will organize in the far northwest and the continent will get little rest from these disturbances until after Jan. 10. Everything on the calendar of bad winter storms may be expected during that three weeks. Unusually warm weather will prevail all over the continent for several days near Dec. 28, and then look out for way down temperatures, bad storms everywhere, rains south, snows and blizzards north, but no deep snows and no general heavy rains. The precipitation will average unusually small for such great storms. These storms are expected to reach Michigan near Dec. 28, the countries west one to three days earlier and east one or two days later. A great warm wave will precede these storms and a great cold wave will follow them.

One-third the crop weather winter had gone on Dec. 21 and an unusually warm and pleasant winter it has been. All North America—except this writer—swore that it would be the coldest and hardest on record. There will be some cold weather, of course, Jan., Feb. and March, but the evaporation of ocean waters that supplies the storms with moisture will come from the wrong ocean to bring an exceedingly cold winter, even after the new year. But the last half of the crop weather winter will be colder than the first half.

Storms will be rather moderate after Jan. 10. Most severe will be near Jan. 15 and 21. In general averages precipitation will be short, increasing in amount from Gulf of Mexico northward. Not good crop weather for winter grain, as an average, in America; better in Canada. But this will not fit all sections.

I repeat it; no such world crop weather and crops have been, for 100 years, as will be for 1922 and 1923. I am giving you a warning that you will see verified if you live through those two years. I do not mean that all sections of North America will produce bumper crops, but I assert that large sections will, and that the total of North America will, at least, be equal to the 10-year averages.

W. T. Foster

POTATOES

The potato market has firmed up all along the line, with little change

| SPUDS PER CWT., DEC. 20, 1921 | | |
|-------------------------------|--------|------|
| | Sacked | Bulk |
| Detroit | 1.70 | 1.66 |
| Chicago | | 1.72 |
| New York | | 1.94 |
| Pittsburg | | 2.14 |

in prices. The movement is still on the decline, due to colder weather and a disposition to hold the crop for higher prices. Little change may be expected in this market until after the beginning of the year.

HAY

The weakness mentioned in our report of the hay market in our December 17th issue was in evidence on all markets last week. Receipts were more than ample to supply the demand. The good weather we have had so far this winter has hindered the coming of higher prices. After the first of the year the market should take on a healthier tone and prices advance. At Detroit standard timothy is \$18 @ 19 per ton with the best grade \$1 higher. No. 1 clover and No. 1 clover mixed are worth \$16 @ 17 per ton. Markets outside the state are from \$1 to \$10 higher.

LIVE STOCK MARKETS

An oversupply in all of the different departments of the live stock markets of the country, during last week, caused a big drop in prices for all grades of killing stock. Stockers and feeders in the cattle department and all grades of feeding stock in the sheep and lamb departments, have been active in all markets and bid fair to continue so throughout the winter months.

Chicago got 69,600 cattle, last week, which was a gain over the week before of 4,600. The bearish element in the situation was the over-abundance of short-fed stuff that is coming forward, about two months before maturity. Very few finished steers are found in current arrivals, a fact that makes it necessary for killers to be content with animals which but poorly meet the needs of their trade.

Eastern dressed beef markets were dull and slow all last week, many of the smaller firms in all markets being unable to kill cattle because of the labor strike. The top price of the week in Chicago for yearling steers was \$11 per cwt.; heavy steers were dull and slow. Steers averaging 1,150 pounds brought right around \$9.75; heavier kinds were from \$1 to \$1.50 lower than those mentioned above.

Declining prices for sheep and lambs have been the rule around the market circle for several days past, the chief causes being an increased supply and a falling off in shipping demand. The week's total sheep and lamb supply in eleven markets was 40,000 head larger than that of the week before. One of the leading features of the week's business was a marked narrowing of the spread between fat stock and feeding lambs; the week closed with the latter selling with a ten-dollar top while \$10.25 was high for the feed kind. Handy weight fat ewes are selling fairly well but at prices about 50 cents lower than those in vogue at the beginning of last week; heavy weight sheep are a drug on the market, selling at \$3 to \$3.50 per cwt. whenever buyers can be found. Much higher prices are looked for as soon as the oversupply is worked off.

Eleven of the principal live stock markets of the country received a total of 700,000 hogs, last week, being a gain of 125,000 over the showing of the week before; taking advantage of the fact that many of the smaller operators were out of the market because of labor troubles, the big packers pounded the market unmercifully. The only thing that saved the trade from a bad slump was the shipping demand which absorbed nearly 115,000 hogs; the pur-

phase for shipping purposes, for last week and the week before, totaled \$34,000 hogs. The general opinion seems to be that the market held up remarkably well under the extremely burdensome receipts and all agree that a decrease in arrivals will cause a sharp advance in quotations.

WEEKLY MARKETGRAM

By U. S. Bureau of Markets and Crop Estimates

Washington, D. C., for the week ending December 17, 1921.

FRUITS AND VEGETABLES—Potato market slow and dull. New York round whites steady in eastern cities at \$2 to \$2.15. Shipping points down 10c at \$1.65 per 100 lbs. sacked. Northern round whites weaker in Michigan producing sections, but steady in Wisconsin and Minnesota. Chicago car lot sales firm at \$1.60 to \$1.80. Pittsburgh jobbing sales down 10c at \$1.85 to \$1.90. Red River Ohio stronger at shipping points, up 10c in most markets. Colorado and Idaho country markets slow, hauling light. Prices to growers for rutabagas \$0 to \$0.05, russets \$1 to \$1.15. Cabbage markets in Philadelphia and Cincinnati made big gains during the week. Most other markets weaker. New York Danish type up \$5 bulk per ton in Philadelphia at \$50 to \$55, up \$10 to \$15 in Cincinnati at \$60. Wisconsin and New York Danish type steady in Chicago at \$45 to \$50 per ton sacked delivered, compared with \$55 a week ago.

Apple markets show little change. Eastern Baldwins at \$1-2, steady at New York City at \$7.50 to \$8 ped bbl. Maine No. 1's weaker in Boston at \$6 to \$6.50, Cincinnati, and Chicago closed with top of \$7. Spitzenburgs \$3 to \$3.25 in New York.

DAIRY PRODUCTS—The butter markets were unsettled during the week with immediate supply and demand conditions the principal influencing factors. Dealers lack confidence in trading. Imports during the week, included 1,550 packages from Denmark, a small shipment from Ireland, and 3,600 boxes from Argentina. Tone of domestic markets easy at close. Closing prices \$2 score, New York 44 1/2 c, Chicago 43 1/4 c.

Cheese markets show unusual quietness of holiday season. Trading not active but prices fairly well maintained. Favorable weather in Wisconsin has been an influence in maintaining relatively good production. Prices at Wisconsin primary markets Dec. 16: Twins 19%; Daisies 20%; Double Daisies 20c; Longhorns 20c.

HAY—Market barely steady. Demand limited. Receipt not large but equal to demand in most markets. Prices show only slight changes. Quoted December 16: No. 1 Timothy New York \$28.50; Chicago, 21; Minneapolis \$17.50; Atlanta \$28; Kansas City \$14. No. 1 alfalfa, Kansas City \$19; Memphis \$25; Minneapolis \$21.50.

FEED—Wheat mill feed situation slightly easier. More feed arriving upon the market and demand is less urgent. Storage stocks of bran at Buffalo 12,000 tons. Winter wheat bran strong at Kansas City because of shutting down of western mills. Linseed meal offerings light but demand also light. Market strong on cottonseed meal on good export buying. Wintry weather in west caused firmer alfalfa meal prices. Hominy feed scarce for immediate shipment. Demand light. Quoted December 16: spring bran \$21, standard middlings \$21.50, linseed meal \$44.50, Minneapolis. Winter bran \$20.25, gray shorts \$23 Kansas City. White hominy feed \$23.50 Chicago. Medium alfalfa meal \$21 Chicago.

MISCELLANEOUS MARKET QUOTATIONS

Detroit, December 20th
Butter—Best creamery in tubs, \$7 1-2 @ \$3 1-2c per pound.
Eggs—Fresh, candled and graded, 45 @ 45c; storage, \$7 @ 30c per dozen.
Apples—Greening, \$3 @ 3.50; Baldwins, \$2.50 @ 2.75; Spy, \$3 @ 4; Jonathan, \$3 @ 2.25; western boxes, \$2.50 @ 3.50.
Cabbage—\$1.50 @ 1.60 per bu.
Popcorn—Globe, 5c; Little Buster, 10c per pound.
Celery—Michigan, \$0 @ 50c per doz, and \$1.25 @ 1.50 per box; California Jumbo, \$0 @ 65c; extra Jumbo, 75 @ 85c; mammoth, \$1 @ 1.10 per dozen.
Onions—Eastern, \$5.75 @ 6.25 per 100-lb. sack.
Dressed Hogs—Small to medium, 10 @ 11c; heavy, 5 @ 7c per lb.

THE DETROIT POULTRY SHOW

FROM THE standpoint of the number and quality of the birds in the display, the Detroit poultry show, which has just closed, was an outstanding success.

The total number of exhibitors was 132 showing 1,300 birds and 350 rabbits and cavy. All of the leading breeds of poultry were well represented but the strongest exhib-

its appeared in the department devoted to White Wyandottes, White Plymouth Rocks, Barred Plymouth Rocks and Rhode Island Reds. One of the most notable displays in the show was made by C. W. Case, Rochester, Mich., from his flock of White Wyandottes. Mr. Case showed 35 birds, all of outstanding merit, capturing all of the "blues" and many minor positions. He was awarded the cup for the best Wyandotte display and the sweetstakes prize for the best display in the show. He also won first on "four bird special." He won 1-3-5 on cock; 1-3 on hen; 1-5 on cockerel; 1-5 on pullet; 1-3 on young pen, first on old pen.

Another notable exhibit was made by S. D. Lapham of Dearborn and Pinckney, Mich. Mr. Lapham showed Buff Leghorns and Buff Plymouth Rocks; one of the notable features of the Lapham Farm exhibit was the fact that the Buff Leghorns were all averaging just about one egg per day under showyard conditions. In the Leghorn division the Lapham entries won as follows: 1-2 on old pen; 2 on young pen; 3-4 on hens; 4-5 on cocks and 3-4 on pullets. In the Buff Rock department, Mr. Lapham won 1-4 on cockerel; 2-3 on cocks; 2-3 on hens and 2-3 on pullets. The Lapham Poultry Farm also breeds White Holland turkeys, Rouen and Pekin ducks and makes a specialty of baby chicks and eggs for hatching during the breeding season. The Lapham breeding farm includes nearly 400 acres of fertile soil well adapted to stock raising and the breeding project includes Shorthorn cattle, Duroc hogs and Merino sheep.

GRANGE AND GLEANERS FOR U. S. OWNERSHIP.

(Continued from page 1)

conventions and finally crystallized into a force at the Flint convention which Mr. Helme with all his following could not overcome. A sharp and prolonged debate was held over the resolution to take the Patron from his hands, and the resolution was finally adopted by a very narrow margin. The Patron will henceforth be edited under the direction of the Master, Lecturer and Secretary.

Strong Legislative Program

The second liveliest debate of the entire convention centered about the report of the legislative committee of which B. E. Kles of Hillsdale was chairman. Mr. Kles formerly farmed in Kansas and has the deep western hatred of everything that brooks of intolerance and oppression. The program which he presented before the State Grange fairly bristled with progressive recommendations, most of which were adopted. The various planks in the adopted report are printed elsewhere in this issue.

The report of the State Lecturer Mrs. Dora Stockman, touched upon the development of the home market for farm products, enforcement of the prohibition law, benefits that may be secured through the U. S. Bureau of Markets, opposition to tax-exempt bonds, and a tax on gasoline.

Mrs. O. J. C. Woodman, chaplain, in a most interesting report, called attention to the fact that the children of workers in the Michigan beet fields are obliged to lose considerable schooling in both the spring and fall, and asked why the school law was not enforced in this respect as in others.

N. P. Hull of Lansing, A. W. Thompson of Vulcan and J. W. Helme of Adrian were elected to the executive committee. The convention voted to hold the next annual meeting at Kalamazoo.

GLEANERS IN BIENNIAL SESSION

(Continued from page 1)

disarmament conference, establishment of municipal storage and market facilities in accordance with Pres. Harding's recommendations.

The convention was gratified to receive a reply from Pres. Harding to their telegram of confidence in the disarmament conference. The President's acknowledgment was as follows:

"Sincere thanks for your telegram of approval and support on behalf of the Gleaners. You may be sure that no effort will be spared to accomplish ends you so earnestly desire."—W. G. Harding.

The convention was attended by

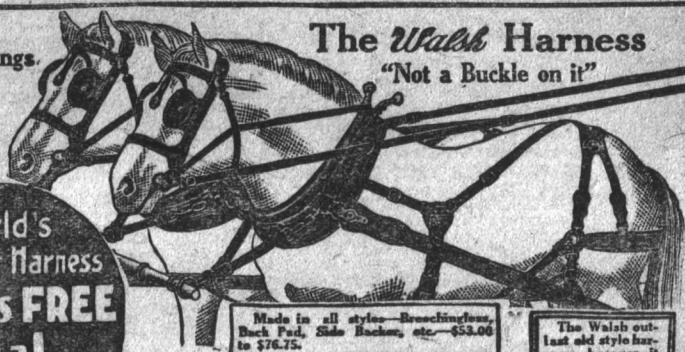
a large number of delegates from the dozen or more Gleaner states. The very fine entertainment program was put on in a most creditable manner by Ohio Gleaners. Withal the convention was one of the most successful of recent years and showed that the Gleaner spirit of loyalty and fraternity has not changed.

ANNUAL SHOW OF ZEELAND POULTRY AND PET STOCK ASS'N

The eleventh annual show of the Zeeland Poultry and Pet Stock Association, Zeeland, Michigan, will be held at Zeeland on December 29, 30, 31 and January 2. The Association has gone to great trouble to make this year's show one that will be long remembered. The committee in charge has arranged to offer the largest list of silver cups and prizes that they have ever offered. All breeders may compete for any of the premiums with the exception of Club Specials. Entries must reach the secretary of the Ass'n before midnight, Dec. 27. The judges at the show will be Dwight E. Hale, Chicago, Ill., and E. C. Foreman, M. A. C., both well known to poultry breeders.

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soon have to repair. The Walsh Harness will save trouble and expense because it has no rings to wear straps in two—no buckles to tear straps. The Walsh is a proven success—thousands in use for over 7 years. It is backed by the strongest guarantee ever put on a harness.

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I don't believe there is any other harness on the market that equals the Walsh in strength, handiness and comfort for the team at any price.
HENRY P. PROVERT, Box 60

SAVED THREE COWS BY TIMELY AID

Jacob Germann of Farmingdale, Ill., tells of his experience with cow ailments much the same as hundreds of others who take the trouble to write us every year. He says:

"I had three cows this Spring, one had garget and one had milk fever, and one was done up completely from calving and could not get up or walk and I had a veterinarian with no good results. I began feeding Kow-Kare and she is able to go to pasture with the other cows now. I just know I would have lost the three if I had not had your medicine."

D. B. Thomas of Knightville, Utah, had an experience with a barren cow that is just like scores of others who have kept cows on a paying basis with the aid of Kow-Kare. He writes:

"Had a valuable Jersey cow eight years old that had had seven calves. Something went wrong with her after her last calf came, so that for two years she failed to become with calf. Fed her some of your Kow-Kare last January and she was all right the first serving, and long before I had given her the whole package of your Kow-Kare that I purchased."

For the prevention or successful treatment of Barrenness, Abortion, Retained Afterbirth, Scouring, Bunches, Milk Fever, Loss of Appetite, etc., no cow medicine has such a record of constant successes as Kow-Kare. Every cow owner should keep it on hand. Sold by general stores, feed dealers and druggists at the new reduced prices—65c and \$1.25.

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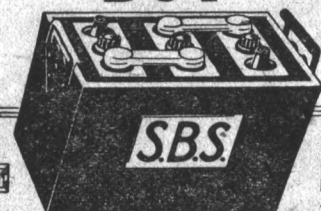


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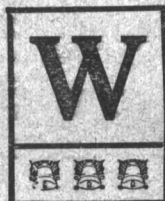
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CONTEST ANNOUNCEMENT

The names of the winners in the Business Farmer's "8" puzzle contest will be announced in the January issue of the Business Farmer. Over 5,000 answers were submitted in this contest, necessitating an enormous amount of labor in checking, etc. The judges' decision will be ready within the coming week and will be announced as above stated.—R. W. Walker, Circulation Manager.



The Season's Greetings!



WE take this opportunity of wishing our many thousands of loyal friends and members a very Merry Christmas and a Happy and Prosperous New Year!

We feel sure that every good business farmer in Michigan who owns an automobile will be gratified to learn that this pioneer among the mutual automobile insurance companies of America, will close the year, 1921, bigger, stronger and better prepared to protect its members than at the close of any previous year.

This is why we feel that we should extend our thanks to all of you, who have by your loyalty in word and action made it possible for your officers to accomplish what they are proud to point to as their record for the past year.

May we not again repeat that it is more important today, under present conditions, than ever before, that the farmer who owns and drives an automobile or truck in the state of Michigan, should have it protected against Fire, Theft, Liability and Collision, particularly in view of the standing of this company and the low rates at which this protection can be had.

Again thanking you and with the Season's Kindest Greetings to You and Yours from

W. E. ROBB, Secretary.

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