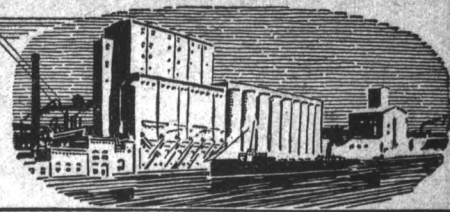


# *The Michigan* **BUSINESS FARMER**



**An Independent  
Farmer's Weekly Owned and  
Edited in Michigan**



Vol. IX, No. 24

MT. CLEMENS, SATURDAY, FEBRUARY 11, 1922

\$1 PER YEAR



*"Dad Gave Him to Me"*

*Bean and Grain Markets Strong and Prices Reach Highest Point in Many Months*



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## Current Agricultural News

### SECRETARY WALLACE SENDS MESSAGE

OWING to very unfavorable atmospheric conditions the attempt to receive by wireless a message from Secretary of Agriculture Wallace at M. A. C. during Farmers' Week proved to be failure, and his message was read instead. In part it follows:

"In common with other farmers, you have suffered severely because of the relatively low prices of your crops and livestock during the past year. We cannot reasonably expect the immediate return of highly prosperous conditions, but I believe that the worst is over and that from now on there will be gradual improvement. 1922 should be a better year for farmers than was 1921, and we can go into the fields this spring with greater assurance of a fair return for our work.

We had a great National Agricultural conference here in Washington last week. There were 326 delegates, two-thirds of them real farmers. Practically every state was represented. The president's opening address showed that he understands the farmers' difficulties and will do all that he can to help overcome them. The delegates worked hard and submitted reports which have been sent to the president and congress, and I hope later will be printed for general distribution. Everybody feels that the conference did much good and brought to the people here a better understanding of the farmers' difficulties.

The work of the Department of Agriculture is being strengthened to give farmers more help in the marketing of their crops and more information about prices and how to adjust production to demand. We expect to give the same emphasis to farm economics that we have been giving to production. We think the farmer wants dollars as well as bushels and pounds. We are all working hard for the folks in the open country and want to help in every possible way. Let us go into this crop season cheerfully and hopefully and with faith that we have made the turn in the road and are now on the way to better times.

### BELGIUM AS A BREADSTUFFS MARKET

THE removal by the Belgium government of restrictions on the sale of wheat has resulted in an immense revival of business in the Antwerp grain market, says Acting Trade Commissioner Cross, at Brussels, in a report to the Department of Commerce, as Belgium must import at least \$5,000 tons of wheat per month to feed its population. Most of the flour used locally is now milled in Belgium, the quality of local straights being practically equal to the imported article, with a price just enough lower to hinder excessive importation. The year 1921 saw a striking decrease in imports of American wheat flour, which has been offset by an increase of 160 per cent in imports of American wheat during the first nine months of 1921 over the corresponding period of 1920.

### GOVERNMENT BULLETINS OF INTEREST IN FEBRUARY

THE following list of Farmers' Bulletins and Circulars which are of general interest during February may be obtained free by addressing the Division of Publications, United States Department of Agriculture, Washington, D. C. Specify number and name and whether Farmers' Bulletin or Department Circular.

Farmers' Bulletin 609, Bird Houses and How to Build Them; 710, Bridge Grafting; 1108, Care of Baby Chicks; 891, Corn Root-Aphis and Methods of Controlling it; 697, Duck Raising; 493, English Sparrow as a Pest; 767, Goose Raising; 882, Irrigation of Orchards; 624, Natural and Artificial Brooding of Chickens; 1194, Operating a Home Heating Plant; 847, Potato Storage and Storage Houses; 689, A Plan for a Small Dairy House; 948, The Rag Boll Seed Tester; 1176, Root, Stalk and Ear Rot Diseases of Corn; 440, Spraying Peaches for the Control of Brown Rot and Curculio; 1131, The Trenching Machinery; 791, Turkey Raising; 733, The Windbreak as a Farm Asset.

### SEX DETECTORS PROVED USELESS

THE Bureau of Chemistry of the U. S. Department of Agriculture has definitely proven that the numerous "sex" detectors on the market are absolutely worthless and cannot detect the sex of embryonic chicks or anything else.

One of these instruments was an elongated, tubular, plummet-shaped device made of nickel-plated iron and filled with a greenish mixture of calcium carbonate and an aluminum salt and suspended by a fine thread. When held an inch above an egg containing a male germ the stuffed tube was said to swing back and forth like the pendulum of a clock, but if the egg were of the opposite sex the bob would describe little circles, and in the case of an infertile egg there would be no motion at all. Another device consisted of a small, gilded wooden ball having a cavity filled with red lead and covered by a small iron disk, the whole suspended by a cord. The telltale motions were claimed to be the reverse of those that indicated male and female with the other instrument. One manufacturer said that by attaching a wire to his apparatus and running it through a keyhole he could determine the sex of any person holding the loose end of the wire.

Tests on eggs and other things by a number of persons showed that all the instruments were useless. No two persons got the same results with the same eggs, and eggs known to be fertile gave positive indications that they would hatch both pullets and cockerels.

### WANT \$2.00 WHEAT

AT the closing session of the Tri-State Grain Growers Ass'n convention at Fargo, a few days since, a resolution was adopted asking for co-ordination of existing farm organizations and a congressional, that is to say government, guarantee of \$2.00 wheat, with the revival of the Grain Corporation.

### KALKASKA FARMERS FORM CATTLE CLUB

AT a dairy meeting held in Kalkaska Jan. 13, a "Jersey Cattle Club" was organized with D. P. Rosenberg as president, Glen Cotten at vice-president and Paul Hayward as secretary-treasurer.

### GRAPES AT \$94.62 TON

GRAPE prices averaged slightly lower last year than the year before. According to a report recently issued by the Southern Michigan Fruit Association the pooling price for Concord grapes in 1921 was \$94.62 a ton. The association sold 440 cars.

### GET MONEY FOR TIMBER LAND DEVELOPMENT

OF the \$15,000,000 allotted by the government for the construction of national forest roads and trails, Michigan has been awarded \$9,353 it was announced Saturday, Feb. 4. The money was divided by Secretary of Agriculture Wallace among 27 states, Alaska and Porto Rico. California lead the list with \$2,164,693, while the smallest sum, \$6,793, was given Porto Rico.

### WOOL LOSSES SLIGHT

THE loss to the government on its purchase during the war of \$5,000,000 worth of wool will be less than 15 per cent, Col. Hugh J. Gallagher, depot quartermaster of the army supply base at Boston, announced last Saturday. Practically all of the wool has been sold, the colonel said, and only two more government auction sales will be held.

### MORE FARM LOANS

APPROVAL of 177 advances for agricultural and live stock purposes, aggregating \$5,343,000, is announced by the War Finance Corporation. An advance of \$111,000 for the purpose of financing the exportation of sugar mill machinery is also announced.

### DECIDE IN FAVOR OF AUTO

Slowly the horse gives way to the automobile. Great Britain farmers have been complaining that the smooth-surfaced roads make very difficult footing for their horses and have petitioned for the application of a special road surface material. But a committee appointed to investigate the subject recommended better shoeing and rubber caulk instead of a special treatment for the road beds.



## Governor Demands Roads Lower Freight Rates

*Interstate Commerce Commission Petitioned to Remove Discrimination against Michigan Shippers*

GOVERNOR GROESBECK has caused an order to be issued to railways operating in this state to show cause why the "zoning" system which was foisted upon the state during the war should not be done away with and Michigan freight rates put on a par with those of other states. It is alleged that as a result of this system many sections of the state are paying the highest freight rates of the entire country. The man hit the hardest by this discrimination is the farmer who pays the biggest freight bill of all. The Public Utilities Commission has known for some time that this discrimination existed but it has failed to act lest it might incur the displeasure of the Interstate Commerce Commission which has stripped most of the state railway commissions of their powers for daring to raise voice against railway rates and practices. But the state commission has finally reached the conclusion that it might as well be shorn of its power as to have it and not be able to use it. Hence, the order. The date of the hearing has been set for February 15th at Lansing.

### HOW MICHIGAN FARMERS ARE HIT

In an address to Farmers' Week visitors Governor Groesbeck cited a number of instances in which farmers of this state were being discriminated against. A portion of his statement is as follows:

"With respect of distance from the sections of Michigan which most substantially produce potatoes, hay, grain, dairy products and farm and orchard products generally, Michigan is more advantageously located than is Wisconsin, one of its progressive competing states. Notwithstanding the differences in distance in favor of Michigan territory, the adjustments to freight rates are such as to make the costs of transporting Michi-

gan's products to the principal important and competitive markets much greater than are the costs of transporting the same commodities from the more distant points in other states.

"Distances considered and in consideration of what are or should be the natural markets for Michigan's farm products, the rates paid by the Michigan farmers are actually and relatively higher than can be found in any other comparable section of the United States.

"To illustrate—Waupaca, Wisconsin, is the price basing market for the Wisconsin potato shippers. The distance from Waupaca to Chicago is 221 miles; the rate on potatoes is 23 cents per one hundred pounds. The distance from Hart, Michigan to Chicago, is 234 miles and the rate on potatoes is 36 cents per one hundred pounds, a disadvantage of 13 miles in distance and 13 cents per one hundred pounds in freight charges. To Toledo, Ohio, the distance from Waupaca, Wisconsin is 409 miles and the rate is 35 1-2 cents. From Hart, Michigan the distance is 266 miles and the rate is 35 1-4 cents. In this instance Hart, Michigan has an advantage of 145 miles in distance but no advantage in freight rate. The distance from Waupaca, Wisconsin, to Cincinnati, is 505 miles and the freight rate is 35 1-2 cents. From Cadillac, Michigan the distance is 595 miles and the freight rate is 40 cents, Cadillac having an advantage of 110 miles in distance and a disadvantage of 4 1-2 cents per one hundred pounds in freight rate. From Waupaca, Wisconsin to Detroit the distance is 376 miles and the freight rate is 35 1-2 cents. From Greenville to Buffalo the distance is 349 miles and the freight rate is 35 1-2 cents. In this instance Greenville is 37 miles nearer Buff-

alo than Waupaca is to Detroit but pays the same rate for the haul. To Pittsburg, one of the most important potato markets, the distance from Waupaca, Wisconsin is 651 miles and the freight rate is 44 cents. From Cadillac, Michigan the distance is 470 miles or 181 miles less than from Waupaca and the freight rate is 42 1-2 cents. In this instance an advantage in distance of 181 miles yields an advantage in freight rate of only 1 1-2 cents per one hundred pounds.

"In the Pittsburg market it appears that an advantage to Cadillac of 181 miles in distance gives Cadillac only 1 1-2 cents advantage in freight rate over Waupaca, Wisconsin. To Chicago, Illinois the distance from Cadillac is only 61 miles greater than from Waupaca but that places Cadillac at a disadvantage of a 13 cents per one hundred pounds freight rate. The rates on apples, beans, hay, onions, potatoes and straw in carload lots from Fort Wayne to Grand Rapids, 142 miles, is 26 cents. From Traverse City to Grand Rapids, 145 miles, the rate is 28 1-2 cents. From Chicago, Illinois to Detroit, 272 miles, the rate is 31 cents. From Cheboygan, Michigan to Detroit, 275 miles, the rate is 35 1-2 cents.

"The principal reason why rates on farm products from Michigan points to all competitive markets are so much higher than are the rates from points in other states such as Wisconsin notwithstanding the fact of much less shorter hauls from Michigan points is that without exception class rates, and principally the fifth class rates, are applied to Michigan shipments whereas from all other and competing agricultural states special and specific commodity rates much lower than would be their class rates are applied. The only exception is with respect of rates on grain. Because of representations (Continued on page 23)

## Shall Michigan Curtail Her State and Federal Road Building Program?

THE proposal to sell another \$10,000,000 worth of state highway bonds in 1922 has brought a storm of protest from the tax-ridden farmers. The state's present bonded indebtedness is \$50,000,000 on which it is paying over \$10,000 a day interest. Computed annually this interest charge represents about one-sixth of the total state tax for the current year. A. B. Cook, master of the Michigan State Grange, insists that no more bonds be issued, but that all future road building be financed by the levy of a direct tax. He has asked the members of the State Grange to circulate petitions with this end in view, and expects to secure the support of at least 50,000 farmers. Mr. Cook's plan has the partial support at least of the Michigan State Farm Bureau, which, while it declared itself to be in favor of good roads, also adopted a resolution asking that no bonds be issued for the year 1922.

To these demands State Highway Commissioner Frank F. Rogers replies that Michigan must spend \$5,000,000 on federal aid roads alone this year in order to qualify for the \$5,000,000 apportioned to this state by the federal government. To complete construction projects on other highways will require another \$5,000,000 or so. A concerted propaganda is being conducted through civic organizations to combat the propaganda of the farmers and an interesting scrap is in prospect.

The controversy takes us back nearly three years ago when, upon the adoption of the amendment to the constitution authorizing the issuance of \$50,000,000 road bonds, the question arose as to how many, if any bonds, should be issued in any single year. At that time the Business Farmer declared itself as follows:

"Michigan Business Farmer supported the bond issue because it believed that the legislature should not be handicapped by lack of funds in carrying out the good roads program. But the Michigan Business Farmer is unalterably opposed to the issuance of a single bond providing the necessary funds can be raised from other sources.

If funds are needed immediately to carry on the road work for the current year (1919) it will probably be necessary to sell some bonds. But we believe that all of the money that can be spent with economy next year and the next and the next can and should be raised by direct tax instead of from the sale of more bonds."

In this opinion Auditor General Fuller, "watch-dog of the state treasury" concurred and still does. At the time the above was written Mr. Fuller said to the editor of this paper: "It is not necessary to issue bonds to secure all the required funds that can be spent with economy in the building of roads. The people will have large enough tax burdens to bear the next twenty-five years without putting on their shoulders that enormous interest charge on \$50,000,000 worth of bonds."

In hopes that the legislature might be induced to go sparingly in the issuance of bonds the editor suggested four different methods by which the money could be raised to carry out the road building program. Tables compiled to illustrate these plans showed that if bonds were issued at the rate of \$5,000,000 per year they would all be disposed of at the end of 1923, but that the

burden of retiring them and paying the interest would run on for another fifteen years. Up to the present time not a single bond has been redeemed although it was originally planned to retire \$2,000,000 worth each year beginning with 1920. Failure to retire any portion of these bonds now will run up a larger interest item than originally anticipated, and means placing a heavy mortgage upon the future which cannot be paid off for at least a quarter of a century. It was calculated that the interest on these bonds would represent a sum of money sufficient to construct approximately 190 miles of concrete, 400 miles of macadam and 900 miles of gravel roads.

Had the legislature issued no bonds but levied a direct tax the rate to raise \$5,000,000 would have been \$1.20 per thousand on the 1918 valuation. The total rate to build \$50,000,000 worth of roads would have been \$12 per thousand. But the total rate to build the same amount of roads by the issuance of bonds will be \$17 per thousand, the difference being due to the interest. Again the question arises, "Is it greater economy to build \$50,000,000 worth of roads at a cost of \$12 per thousand valuation or \$17?"

A copy of these tables was placed in the hands of every member of the legislature and had the effect of influencing the legislature to agree upon a somewhat more conservative road building policy than some of the good roads zealots were seeking. But the highway department has been insistent in its demands for more money and the 1921 legislature took the bars down and opened the way for a riot of spending. Economy has been sacrificed to speed and there are numberless instances of waste and inefficiency.

In order that the Business Farmer may intelligently represent readers views on the pending issue we urge every reader to write us his or her views upon the subject. Shall the state issue no road bonds in 1922? Or shall the state issue no more road bonds at all but pursue a pay-as-you-go policy?

— — — — — Clip this Coupon — — — — —

(The reader is urgently requested to indicate his or her views upon the following questions and return to Editor Business Farmer, Mount Clemens, Mich.)

Do you believe that the state should not issue any road bonds in 1922?

(yes or no)

Do you believe that the state should not issue any more road bonds at all but raise road funds by direct tax levy, thereby saving interest on bonds?

(yes or no)

Do you favor a tax of one cent a gallon on gasoline to be used for road building purposes?

(yes or no)



# Organized Farmers Meet in Harmony at M. A. C.

*Agricultural College is Host to Five Thousand Farm Folks Representing Every Farm*

## Organization in Michigan

ANOTHER Farmers' Week has passed into history and another golden chain has been added to the bonds of fraternity which are gradually drawing the farmers of Michigan into a united, sympathetic, broad-minded, and constructive co-operative body. Farm Bureau, Grange, Gleaners, Farmers' Clubs—all were well represented. All were accorded recognition on the program. All laid aside their trivial differences, if they had any, and entered happily together into the occasion as members of one great family.

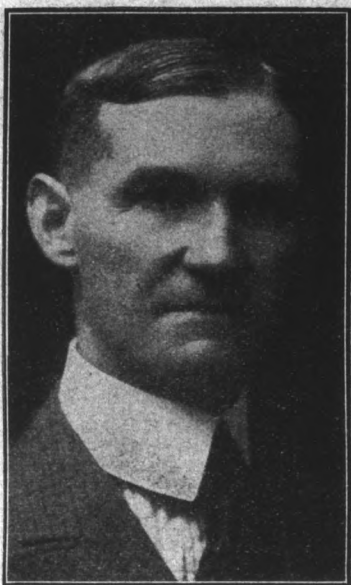
Night after night the great gymnasium was thronged to the doors by dirt farmers, their wives and children, members of the student body and interested folk from the nearby city of Lansing. A number of the speakers scheduled to talk were unable to take their accorded place on the program due to a variety of causes. These included J. R. Howard, president American Farm Bureau Federation; David Friday, president elect M. A. C.; Grant Slocum, president of the Gleaners; A. B. Cook, master State Grange; but by the substitution of other speakers the program was carried out to the satisfaction of all concerned.

Neither hard times nor inclement weather seemed to have much effect upon the size of the attendance or the spirits of those who came. Because of the increased necessity for economy this year the college authorities were prepared for a much smaller attendance than last year, but the registration was almost exactly the same and estimates place the crowd as almost, if not quite, as large as a year ago. Possibly there was a little less gaiety. Possibly the enthusiasm and the jolliness did not bubble up quite so spontaneously as a year ago, but if so it were only natural for there was probably not a farmer present who had not been "deflated" and was considerably poorer in the world's goods than he was a year ago. Adversity has a habit of drawing folks closer together and while the crowd might have been more sober-minded than on like occasions of other years, this but served to make them more friendly and interested in each other.

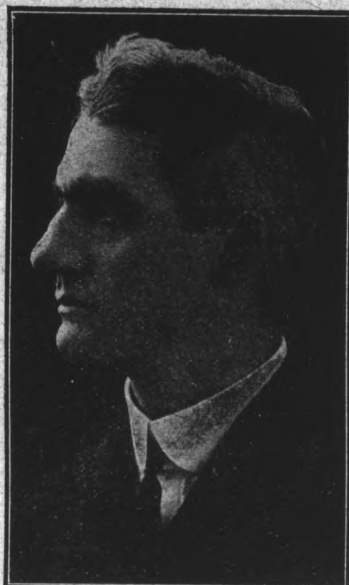
The first two days of the week were warm and fine. The third day it rained. The fourth it snowed and the wind howled about the campus. The fifth it snowed some more. But neither rain nor snow, wind or blizzard kept the crowd away. Each day witnessed fresh arrivals by automobile, steam and electric railway. All meetings were well attended and all attractions and exhibits had their full quota of spectators.

In years gone by the M. A. C. has been accused of being a "high-brow" institution and of holding aloof from the farmers of the state. But if such an attitude ever prevailed it is gone. Not a vestige remains. Every individual connected with the college, from Acting President Shaw

and Extension Director Baldwin down as well as members of the student body, bent his or her best efforts to make the farmer visitors feel at home, and to insure the success of the occasion. It was a success in every sense of the word and



L. WHITNEY WATKINS  
Chairman Board of Agriculture



DEAN ROBERT S. SHAW  
Acting President M. A. C.

## College Heads who Welcomed Farmer Guests

every guest felt a keen appreciation of the cordial reception accorded and the splendid entertainment provided. The Business Farmer predicts that with a continuation of this happy comradeship between college authorities and farmers the time will come when the present facilities of the M. A. C. will be wholly inadequate to take care of the great body of farmers who will come there in constantly increasing numbers to enjoy the festivities of Farmers' Week. So mote it be.

## FARM BUREAU HOLDS ANNUAL

THE annual meeting of the Michigan State Farm Bureau was as usual the big event of Farmers' Week. Delegates attended from every farm bureau county of the state. Rumors that factions which were ousted from the Bureau a year ago would try to stage a come-back were apparently without foundation or else finding so little encouragement the dissenters withheld their program from the convention. The contests for the various offices were few and unimportant. The vote on both officers and resolutions showed a surprising unanimity of opinion and a desire to avoid anything which might be construed as a criticism of the work of the officers or a division in the ranks.

A furore was created among the farm bureau delegates and visitors when a Detroit daily newspaper appeared upon the Campus with the announcement that Secretary Brody's report showed a drop in membership from 97,000 to 32,000. Examination of the report failed to reveal any such condition. The financial statement of the Bureau showed that approximately 32,000 members were delinquent in the payment of their 1921 dues leaving a total of 65,000 paid-up and in good standing. The percentage of delinquent members is larger than the preceding year, Secretary Brody explains, because of the low financial condition of the farmers and the desire of the Bureau to give them more time when needed to make their payments.

Secretary Brody's report discussed the problem of financing the Bureau after the expiration of the first three years. He recommended and the convention decreed that another intensive membership drive be carried on, a study of the situation indicating that from sixty to seventy-five per cent of the original membership can be signed up a second time. The secondary aim of another membership drive is to create a surplus fund of a million dollars which invested in good securities would yield the Bureau an income sufficient to meet all overhead expenses for all time to come.

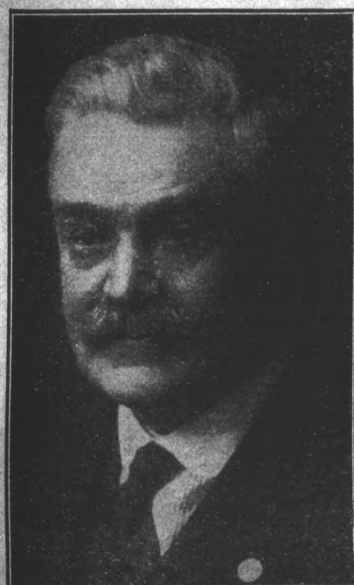
## BUREAU REVISES POLITICS STAND

The delegates revised the Bureau's stand on participation in political affairs to the extent of permitting officers to engage in management or control of "educational, administrative or regulatory institutions having to do primarily with agriculture." The original constitution did not permit an officer or representative to hold any public office of any nature whatsoever as long as officially connected with the Bureau. The real purpose of the amendment was to enable Secretary Brody to retain his position on the State Board of Agriculture.

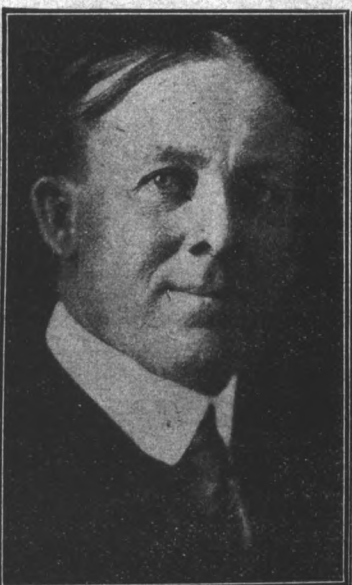
The board of directors was increased to eleven members in order to give each of the four commodity organizations, viz., the Michigan Potato Growers Exchange; the Michigan Milk Producers' Ass'n; the Michigan Live Stock Exchange and the Michigan Elevator Exchange, representation on the Board.

The convention vigorously denounced the proposed amendment to the state constitution to eliminate the moiety clause in the Constitution and place representation upon a purely population basis. Opposition was also announced to the proposed commission form of government for counties.

Agricultural credit and usury practices came in for discussion and resolutions were adopted urging that every effort be made to secure for the farmer adequate long and short term credit accommodations from all sources available, and



JAS. NICOL  
President Michigan State Farm Bureau



A. B. COOK  
Master Michigan State Grange



H. H. HALLADAY  
Commissioner of Agriculture



GRANT SLOCUM  
President the Gleaners



LEE S. NOBLE  
President State Association Farmers Clubs

*Michigan Farm Leaders who are Paving the Way for Closer Co-operation and a Better Farm Future*





DR. MARION LEROY BURTON  
President University of Michigan  
Farmers' Week Speaker

to discover an adequate practical remedy for the usurious rates of interest now charged farmers in many sections.

A roar of approval went up when a resolution was presented and unanimously adopted "opposing anything that in any way belittles or tends to tear down the 18th (prohibition) amendment." Congressman Brennan, please take notice.

The convention went on record as favoring the adoption of the amendment to be submitted next fall to provide for a state income tax, and recommended that in the event of the adoption of the amendment the legislature pass an income tax law which will secure sufficient revenue to "pay all state expenses and displace the general property tax for state purposes, the surplus if any to be used to retire the soldiers' bonus bonds. A tax of one per cent per gallon on gasoline was also approved.

Another resolution which reveals the increasing desire for closer harmony and cooperation between farm organizations urged that a joint meeting be called of Farm Bureaus, Grange, Gleaners and Farmers' Clubs "to conduct a systematic campaign to secure the adoption of such measures as will aid the property and welfare of the citizens of this great state of Michigan.

Other resolutions adopted opposed the further issue of tax exempt bonds, recommended that the property of municipally owned utilities lying outside the corporate limits be placed upon the tax rolls of the townships in which it is located, that the stock of all trust, finance, mortgage companies and building and loan associations be assessed and taxed on the same basis as the stock of state and national banks, that the state reimburse from the primary school funds all school districts for the sums paid out for tuitions of its students in high schools, that the motor vehicle license money which is returned to the county be placed in the control of the board of supervisors instead of the county road commission, that the state administrative board be requested to suspend the issuing of any state highway bonds during the year 1922,

that the Covert road law be repealed, that the limit of \$5 per thousand valuation for road repair and road improvement be reduced to \$3.

Resolutions also endorsed the work of the American Farm Bureau Federation, the work of the State Farm Bureau "in the methods of developing commodity control in co-operative marketing, and their friendly co-operation with the farmers' organizations," endorsed the lakes-to-ocean waterway project, endorsed the work of the wool department, approved Secretary Brody's efforts to reduce the overhead expense of the state farm bureau, opposed free seed distribution, recommended an adequate reforestation policy for the state of Michigan, opposed the zoning system of fixing rates in the state and urged that Michigan rates be placed on a par with transcontinental lines, approved the establishing of a marketing agency for produce in the city of Detroit.

#### OFFICERS ELECTED

The following persons constitute the new board of directors, part of whom hold over for another term and part of whom were elected at the annual meeting: Directors at large: Jas. Nicol, South Haven; L. Whitney Watkins, Manchester; George Friday, Coloma; E. E. McCarty, Bad Axe; M. B. McPherson, Lowell; Mrs. Edith Wagar, Carleton; A. C. DePue, Faithorn. Commodity directors: W. E. Phillips, Decatur, representing Elevator Exchange; Fred Smith, of Elk Rapids, Potato Growers' Exchange; Elmer Beamers, Union City, Livestock Exchange; M. L. Noon, Jackson, Milk Producers' Association. All officers were re-elected as follows: Jas. Nicol, president; M. L. Noon, vice-president; Clark Brody, secretary; Fred Van Orsdall, treasurer.

#### KETCHAM DEFENDS FARM BLOC

To Congressman John C. Ketcham undoubtedly goes the honor of bringing the message which

found the greatest response in hearts of the farmers who jammed the gymnasium to its very doors to hear him. Mr. Ketcham came to East Lansing direct from the halls of congress and in his usual earnest and convincing fashion kept his audience at close attention for more than an hour with his recital of what the farmer is doing at Washington.

Some of those who pose as the farmers' friends are still warning him to "keep out of politics," yet there is no subject in which he is more greatly interested or concerns him more vitally. Ketcham's defense of the farm bloc, of pending farm legislation and his words of approval of the tax program of the Michigan farmers, as well as his plea for a square deal to all, brought forth loud and long applause from his audience.

Mr. Ketcham told of the activities of the agricultural bloc of which he is a member. He described how the House of Representatives had passed the surtax bill cutting the tax on incomes over \$68,000 from 60 to 32 per cent but making no reduction in the tax on lesser incomes, how the bill went over to the Senate, was attacked by the agricultural bloc, amended by increasing the rates on large incomes from 32 to 50 per cent and reducing the rate on lesser incomes, sent back to the house where the house bloc was organized and mustered enough votes to pass the Senate amendments. This was one of several instances which he recited of the large influence of the bloc. He told his audience that the bloc would survive all criticism because it stood only for a square deal to all parties concerned, and he warned that if it strayed from its avowed purposes and enacted class legislation it would fall into disrepute and lose its power just as the labor and capital blocs had done.

The congressman lauded Michigan farm leaders for their efforts to work in harmony and recalled to mind the time not so very long ago when the "president of the Farm Bureau, the master of the State Grange, the president of the Gleaners and the president of the Farmers' clubs could (Continued on page 16)



HON. JOHN C. KETCHAM  
Mich. Congressman who brought  
Message from Washington



Exhibit of the Michigan Crop Improvement Association, one of the Many Wonderful Agricultural Displays of Farmers' Week

## Does the Average Farmer Do a Gross Business of Only \$1,500 a Year?

ESTIMATES secured from 237 farmers in 12 communities show that on the average 80 acre farm, gross income last year was \$1,470, cash expenses \$975, is the statement made by Mr. H. B. Killough, farm management demonstrator, Michigan Agricultural College, who has been working with farmers over the state for the last two months in an effort to determine what the average net farm income is under present conditions of low prices and high costs.

"I have estimated that I can sell \$3,500 worth of produce next year off of a one-hundred acre farm at prevailing prices," says an Eaton county farmer. "Am I too high?" Here is a man who is thinking from the top down; too many of us do our thinking piece-meal fashion from the bottom up. Surely, if gross sales are only \$1,500 and cash expenses are \$1,000 the net income is not very large. Are you unable to find a way to add a few dollars to your gross income next year without working all day Sunday?

How much did you sell last year? A record of sales is easily kept; a farmer's turnover is once a year and he seldom has to deliver a dime's worth of wheat or fifteen cents worth of pig. Studies of thousands of records secured all over the United States show that farms having the largest gross income are different from other farms in at least four respects:

1. Crop yields are above average for the community.

2. Livestock production is greater per animal unit.

3. The farm is large and well equipped.

4. More than one kind of produce goes to market.

In less than thirty minutes the other day a group of men classified their sales for the past year as kept in an account book put out by the Michigan Agricultural College. The gross sales varied all the way from \$600 on one eighty acre



There's a time for everything and farming success depends upon doing the thing at the time and in the manner it should be done. A well-equipped farm workshop is a necessity on the well-organized farm.

farm to \$3,600 on an eighty not two miles away.

Maximum net income is the final goal. Higher prices, more sales, less expense may all have a similar effect in increasing net income. What are some of the big items of expense on an eighty acre farm?

1. Taxes—\$200, a fixed expense.

2. Insurance—\$20, well spent.

3. Feed bought—\$200. Suppose I check up on my feeding once a month and figure out a balanced ration for cows, hogs and hens. It may make the feed bill less or it may make it more. Either way chances are that more milk, hogs and eggs will be sold for every \$100 worth of feed you use. If not, better sell the boarder cow and cull the poultry. The bill for hired labor: How much is it? How much should it be? May not the milk flow from the dairy herd begin after potatoes are dug and silos are filled in the fall and decrease in busy spring and summer months? Is threshing over before bean pulling begins? When is the haying season? Does the farmer with a large net income cultivate more acres per man and per horse because he works more hours a day or because he works more days a year?

"More work, better seed, more potatoes and no price," says a Montcalm county farmer. "Is his theory sound? Whatever the answer may be the time is at hand when those of us who stay in the game must figure more, think harder, and manage better."



## Make \$13 More Per Cow

Free Book for Dairy Farmers  
Tells How to Cut Out Waste;  
Gives Valuable Building Hints

Do you know that the manure produced by one cow in twelve months contains fertilizing elements valued at \$39? And do you know that one-third, or \$13 of this amount is lost in the course of a year through improper handling? By providing a simple easy-to-build pit outside the barn, this loss can be prevented.

Write for this Free Book, "Concrete on the Dairy Farm," and see the many money-saving suggestions it gives on the use of concrete in making permanent improvements. Properly housed dairy cattle return greatest profit on the investment. This free book is recognized as a simple guide to 100% efficiency and economy in building on the dairy farm. Fully illustrated with diagrams and pictures. Shows how to build barns, milking parlors, silos, icehouses, cooling tanks, paved barnyards, manure pits, water supply systems, etc. Address office nearest you.

## PORTLAND CEMENT ASSOCIATION

A National Organization to Improve and Extend the Uses of Concrete

Atlanta Boston Chicago Dallas Denver Des Moines Detroit Helena Indianapolis Kansas City Los Angeles Louisville Minneapolis New York Philadelphia Pittsburgh Portland, Ore. Salt Lake City San Francisco Seattle St. Louis Vancouver, B. C. Washington, D. C.

## PLANT HUBAM

The New ANNUAL Sweet Clover  
Hubam is a fast growing white sweet clover—grows 5 to 8 feet the same season. An excellent hay, big yielding and nutritious. In crop rotation, Hubam saves a year, as it is an annual; it means thousands of extra dollars in the pockets of growers. Hubam has been acclaimed the most important crop development in years.

Plant Northern-Grown Hubam  
Isbell has adopted this southern clover to northern conditions—has made it hardy, yet big-yielding. Make sure of big crops by procuring Michigan grown Bell Brand Hubam direct from the growers.

Write Today For Special Prices  
CATALOG FREE  
Isbell's 1922 Catalog gives cultural directions—describes the best seeds—points the way to bigger, better crops. Send for it today—it is free—and it will prove very valuable to you.

S. M. ISBELL & COMPANY  
559 Mechanic St. (24) Jackson, Mich.

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450 Per bu.  
A. A. Berry Seed Co., Box 627, Clarinda, Iowa



# Farmers Service Bureau

(A Clearing Department for farmers' every day troubles. Prompt, careful attention given to all complaints or requests for information addressed to this department. We are here to serve you. All inquiries must be accompanied by full name and address. Name not used if requested.)

## HUBAM CLOVER

I have two acres of potato ground on which I would like to grow Hubam sweet clover next year for seed. I plowed under half stand of red clover when I plowed for potatoes and thought if I used some agricultural gypsum it would sweeten it up some for the sweet clover. Am I right? Will sweet clover grow if alfalfa grows without liming the land? Where can I get Hubam sweet clover and white sweet clover? Can white sweet clover be seeded in the fall, can it be seeded like red clover and harrowed in the spring? Where can I get Robust white beans?—C. W. L., Cedar Springs, Mich.

Potato ground should be in excellent condition to receive Hubam clover next spring. The use of one or two tons per acre of finely ground limestone and 200 pounds of acid phosphate will give you better results than gypsum.

If alfalfa and red clover grow well on the land both Hubam and biennial sweet clover will do well without liming. Acid phosphate, however, is advisable when Hubam is planted for seed purposes, since it hastens maturity and increases the yield of seed.

Both Hubam clover and the biennial white sweet clover can be secured from the Farm Bureau Seed Department, 221 N. Cedar St., Lansing, Mich.

White sweet clover can be seeded with success in the fall or if scarified seed is used it can be seeded like ordinary red clover in the spring and harrowed in. The latter method is the usual practice when planting sweet clover.

Certified Robust beans can be purchased from the seed department of the Farm Bureau—J. F. Cox, Professor of Farm Crops, M. A. C.

## CAN FORCE COMPLIANCE WITH CONTRACT

Recently I took a sub-contract to cut a specified tract of timber into buzz wood at \$1.50 per cord. After cutting about 100 cords the owner of the land told me to stop. This I refused to do as I had made my contract with the other parties. Today one of these parties that I had my contract with came to me and informed me that I had better quit. As I had just completed the worst part of the land where a fire had downed the timber and in a swamp I agreed to do this if he would pay me \$2.00 per cord for what I had cut. He refused to do this, saying I could have the wood, which I do not want. In view that I have done the worst part of the job can I make them pay a higher price than the contract price. The owner is entitled to one-fourth of the wood, he paying 50 cents per cord for the buzzing. Are not the ones I took the contract from responsible for the balance, namely 1.10 per cord? The ones I made my contract with are reliable people.—W. R. H. Beulah, Mich.

If you are prevented from completing your contract by the parties with whom you contracted they are responsible for the value of your services at the contract rate taking into consideration the extra difficulty that occurred in completing such work as was done by you.—Legal Editor.

## PIPING WATER INTO HOUSE

Have a spring about 200 feet from house with about 40-foot grade up to the house. Can it be piped into the house by using a pump? Would it be very expensive?—A Reader, Traverse City, Mich.

This is an entirely practical proposition and not a very expensive one. A 1 inch pipe should be used and should be placed below the frost line. The cost for this pipe I would estimate to be about \$20 and the expenses for digging trench and laying pipe about the same, possibly a little less. A common force pump will be satisfactory. The pressure in pounds per square inch required to elevate water 40 feet is about 17.

It occurs to me that there may be a possibility of installing a hydraulic ram. This machine is entirely automatic and must have a fall from the spring to the ram of not less than 2 feet and must be supplied with not less than 10 gallons of water per minute and have a drive subscriber has these conditions I pipe at least 20 foot long. If you have these conditions I would advise that you write to reputable manufacturers of rams for quotations as to the cost of a ram and price for installing. They will

also advise as to the size of ram to use and the amount of water which the ram will deliver.

I am giving the addresses of some manufacturers of hydraulic rams: Deming Co., Salem, Ohio.; Barnes Mfg. Co., Mansfield, O.; Goulds Mfg. Co., Seneca Falls, N. Y.; F. E. Myers & Bro., Ashland, O.—Floyd E. Fogle, Asst. Prof. of Farm Mechanics, M. A. C.

## CLAIM IS OUTLAWED

In the year 1918, the latter part of August, P. M. R. R. set fire to 15 acres of my land, burnt the fences and 3 acres of hay. Can I collect damages? A man came to me and adjusted the damages, did not hear any more. I made inquiry later on and they said the government paid no damages. Is the claim outlawed?—Wm. M., Atkins, Mich.

The statute provides: "Action to recover damages for injuries to persons or property shall be brought within three years from the time such accidents occur and not afterwards."—Legal Editor.

## FARM PAPERS

Can you give me the names of some farm papers and where they are published in the northern part of Indiana and Ohio?—A Subscriber, Nashville, Mich.

The Indiana Farmer's Guide is published at Huntington, Ind.; The Rural Tribune, a small local farm paper is published at Montpelier, Ind., and the Purdue Agriculturist is published at Purdue by the Agricultural College. In Ohio there is the Ohio Farmer, Cleveland; Trumbull Rural Associate, Warren; Farm and Fireside, Springfield (a national paper); Farm and Dairy, Salem. Other agricultural papers in these states are of very small circulation and devoted to only one branch of farming. They are more nearly local news papers than they are farm papers.—Editor.

## RUTHERFORD CONVICTED UNDER ESPIONAGE ACT

A neighbor of mine claims that Judge J. F. Rutherford and the celebrated old Pastor Russell were convicted of violating the espionage act and sentenced to three years imprisonment. Is this true?—G. S., Paw Paw, Mich.

J. F. Rutherford and others were convicted of violating the espionage act. Seven of them were sentenced to twenty years and one to ten years. They served nine months in the Atlanta penitentiary, at which time the Court of Appeals reversed the judgment of the lower court, and remanded the case back for a new trial. Based on this decision the parties were admitted to bail pending a new trial. However, in May, 1920, the department, after mature consideration, reached the conclusion that the case should be dismissed and action was taken accordingly. It is understood by the department that Pastor Russell died some time prior to the institution of these proceedings.—Department of Justice, Washington, D. C.

## EXECUTION OF DEED IN FOREIGN COUNTRY

I wish to know through what channels I can secure a quit claim deed from person living near Stockholm, Sweden. We have agreed on price, etc., but do not know how to go about it, so as to have it legal.—C. A. H., Gaylord, Mich.

The direction for execution of a deed in a foreign country can be found in Section 11627 of the C. L. of 1915. You can send them form of the deed you desire and have them go before the proper officer named in the above section and comply with the requirements of that section so that you may place the deed on record. Your prosecuting attorney will be able to find you the section referred to.—Legal Editor.

## SERVICE

Will you please announce in your paper that my request for watch key has been answered by three of your readers, and the latest received from Mrs. Bettie Brown, of Wyandotte, fitting perfectly. It is a fine thing to know how to reach so many good folks. Thanking you again for obliging.—Mrs. F. J. Walter, Hesperia, Mich.

## OBLIGATIONS OF MUTUAL INSURANCE HOLDER

I am sending you a letter from the Liberty Mutual Automobile Insurance Co. I wish to withdraw from this company. What should I do? What can they do if I don't send the money?—H. C., Vestaburg, Mich.

It is impossible to say exactly what your obligations are as a member of this company without seeing the constitution and by-laws which should form a part of your policy. Mutual insurance companies make up their losses by assessments against their members, and during the year-to-year period of your membership you are liable to these assessments. If you do not pay, you lose your protection and make you liable to suit. If you desire to withdraw from the company the only way you can do so is pay all assessments levied against you and then notify the company of your desire. But so long as you owe the company an assessment or are a member of the company you are liable with all other members for its losses. These are some of the reasons why mutual insurance can be sold so much cheaper than the so called "old-line" insurance.—Editor.

## BARN NOT PERSONAL

Will you please answer the following questions in an early issue of the M. B. F? We bought a farm on a contract, there was some personal property on the place which was reserved, to be moved off the place at any time. There was no mention made what articles this personal property consisted. There is an old barn which is absolutely worthless for shelter, the floor consists of old boards and there is some corn fodder in bundles, some straw in this barn; also a stack of straw outside. Who does this straw and corn fodder belong to?—R. Bros., Kendall, Mich.

I am of the opinion that straw and corn fodder are personal property and would belong to the former owner if he reserved the personal property. The barn, of course, would belong to the purchaser of the farm notwithstanding it was an old barn. It is still a barn belonging to the farm until it has been severed from the soil and put in the shape of timber and lumber.—Legal Editor.

## WHEN CAN A PUBLISHER COLLECT?

I would like to know whether or not a publisher can collect for a paper after your subscription has run out, if you do not notify them to discontinue sending it.—N. R., Sand Lake, Mich.

This question has already been answered a number of times in this department. If a publisher continues to send you his paper after your time has expired and you do not want it any longer, notify him. If he continues to send the paper, do not take it from the mail box. The law presumes that when you take a paper from your mail box, you get value out of it and must therefore, pay for it. Your mail carrier will take the paper back to the postoffice and the postmaster will notify the publisher that it has been refused. If, after adequate notice the publisher continues to send the paper the postmaster affixes stamps to them and returns them to the publisher who must pay the return postage. We repeat, if you don't want a paper, do not take it from your mail box, in which case the publisher cannot collect.—Editor.

## NOT A CRIMINAL OFFENSE

Two years ago last August I sold my Buick auto, 5 passenger, to a man for \$725. He paid down \$250 and signed a note for the balance. His wife also signed the note. These are the only signers. He paid interest for the first year on the note about six weeks after it was due. The second year's interest is still unpaid and is almost 4 months over due. I have written three or four times for an explanation of matter, but no answer comes. I know he gets my letters. After he had my auto for about three months he traded it in as part payment for a new Buick, 7 passenger machine. He really didn't need any such new machine. He manifests no desire to pay the second year's interest, nor do anything on the principal, nor even answer my letters. I am making myself believe that he is bound by contract to pay the agent he bought his second machine



from, and finds himself hard pressed for money to keep his payments with me. I don't like to think he intends being dishonest with me, but his actions in not paying up the interest or making a sensible explanation to me causes me to seriously doubt his honesty. The auto I sold him the agent tells me was worth almost \$900, so that I did not overcharge him.—A Weekly Reader.

If you did not reserve the title to the machine in the note signed by the man and his wife you have no criminal charge to make against him. If he fails to pay the note it is breach of contract for which you might sue him and take judgment for the amount of the note. You could seize any property he has on execution. It is not a criminal offense to fail to pay one's note when it is due.—Legal Editor.

#### LOTS ARE WORTHLESS

Can you give me any information in regards to cottage lots at Lake Breeze Grove, Mich? I have some which I am anxious to dispose of.—P. M., Akron, Ohio.

These lots are valueless. They are about two miles from Lake Huron on sand plains and about 10 miles north of this place. There were something like 18,000 of these lots sold mostly to out-of-state people and the Michigan Central Realty Company would still be selling them if the government had not stepped in and stopped them from further sales. I can not say any more about them only that they are no good and never will be as they are nowhere near a lake or stream and they are on barren sand plains and about 5 miles from the nearest habitation.—County Clerk, Rogers, Mich.

#### FOAM NOT POISONOUS

Just a line to settle an argument. A neighbor claims she killed a calf by feeding it separated milk with the foam on it. Is the foam poisonous? I claim it is not. She says it is.—R. E. W., Jackson, Mich.

The only way it is possible for a calf to be affected so as to cause its death from separated milk that contained foam, is that the calf is free to put its head down to the bottom and draw this foam down into its lungs and cause congestion there. It is best to scrape the foam off before offering to the calf.—O. E. Reed, Professor of Dairy Husbandry, M. A. C.

#### HOW TO POST LAND

I am writing you in regards to "posted property". I understand that the fine for trespass is only six cents, which wouldn't worry anybody to pay. Can you tell me how much the fine would be on posted property and the proper way to post property as required by law? Also who am I to report the trespass to, the sheriff or game warden, as it is to protect the game on my premises that I want to post? I have signs up at the present time, but hunters do not pay any attention to them. The signs I have up are plain boards, having written on them (Keep off to avoid trouble.) I am tired of city hunters slashing through my farm and would like to know the law.—O. W. J., St. Clair, Mich.

The notices for "posted" land should forbid the hunting thereon and have the name of the owner on the notice. Similar to this form: "HUNTING HEREON FORBIDDEN JOHN JONES, OWNER"

Section 7500 provides the penalty that:

"Any person or persons violating any provision of this act shall be deemed guilty of a misdemeanor and upon conviction thereof for the first offense shall be punished by a fine of not less than \$10 and not exceeding \$100, together with costs of prosecution; or by imprisonment in the county jail or the Detroit House of Correction, not exceeding 90 days or both such fine and imprisonment in the discretion of the court."

It would be proper to make complaint to the prosecuting attorney or to the game warden, but you may make complaint to the justice of the peace who has the ability to draw the complaint.—Legal Editor.

#### FUTURE OF KALKASKA

What do you think of Kalkaska as a farming county? I have a farm there and as soon as conditions are better I want to go back there to live. Do you think the soil survey will increase the price of land in the northern part of the state and how long before it will be completed? Could you please tell me whether the Willis St. Claire Auto Co., of Marysville is a part of the Willis-Overland Co., of Toledo, O. How far is the plant from Port Huron?—J. D.—South Lyons, Mich.

As you know a good deal of the land in Kalkaska county is worthless for producing crops, but there is much good land also. The soil survey is likely to increase the price

of good land and decrease the price of poor land. Legislation will be sought to prevent holders of sand lands from putting them on the market. The survey will not be completed for several years. There is no postoffice in the state by the name of "South Park." The auto concern to which you refer is the Willis (not Willis) Sainte Claire Co. It has no connection with the Willys (Not Willis) Overland Company, of Toledo. The former concern is headed by a man by the name of Willis who was formerly a high officer in the Ford organization. Marysville, the home of the Willis Sainte Claire is located about eight miles south and west of Port Huron.—Editor.

#### DUTIES OF SHERIFF

A neighbor's child comes to your house frightened and says her father has threatened to kill them all and wants you to call the sheriff by phone and you tell the sheriff and he says he cannot come unless they come personally and swear out a warrant for his arrest. This makes the second time our sheriff has refused to go on such a call, perhaps he is right, but what is a sheriff for if it is not to go on such calls. When the party tells the sheriff who is calling, etc. So I am writing to you for an answer.—Reader.

There are only a few circumstances where the sheriff may interfere with an individual without the order

of the court. The sheriff is entitled to exercise his best judgment when complaints similar to those you relate are given to him. Because he has only such authority as the court shall give him. It is a reasonable request of the sheriff that the parties shall make a sworn complaint and allow him to have the written authority, a warrant of the judge, to interfere in matters similar to what you have described. In only a few cases can a sheriff arrest without a warrant. He has a right to interfere in a breach of the peace committed in his presence.—Legal Editor.

#### ENTITLED TO RECOVER ON SHEEP KILLED BY DOG

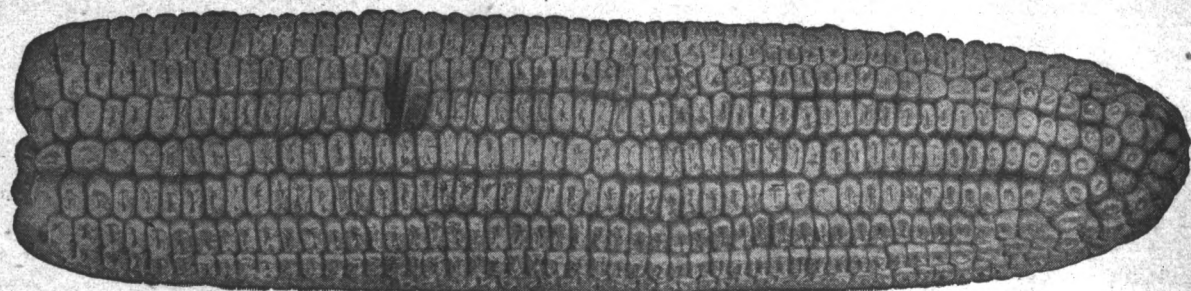
In 1916 I had seven sheep killed by dogs in Saginaw county. I was allowed \$5.00 per head but as there were several other claims in and not enough money in the dog fund to cover the total I received but \$5.00 on my share. Am I still entitled to the balance of \$30 and, if so, how should I proceed to get it?—S. B., Williamston, Mich.

Your claim for damages is good until paid if there is enough collected in the dog fund to pay the same. You should take up the matter with the treasurer of the township where you filed the claim.—Legal Editor.

#### NO RIGHT TO STOP UP DRAIN

I would like your advice as to whether the highway commissioner or township board would have any right to put a tile across a road where there has never before been tile, when 8 or 10 rods from such low point there is a county drain? If this drain were cleaned out it would drain the water from the road as the surface is nearly level to this county drain. By putting a tile across the road at this low point the water would be drained off the road and off the farm on one side of the road onto the farm on the opposite side where there has never been a ditch. Also would the highway commissioner have a right to widen and raise the road to keep the water from running across the road until this county drain is cleaned out? This county drain has already been surveyed for a clean out.—W. T., Allegan, Mich.

The owners of property on each side of the road are entitled to have the water flow therefrom as in a state of nature. If the highway commissioner blocks up the flow of water the highway commissioner would have the right and it would be his duty to place a tile therein to restore the land as near as possible to its original condition. The distance of a county drain would not be material in the matter. The highway commissioner would have no right to widen and raise the road to keep the water from running across the road until the county drain is cleaned.—Legal Editor.



## The Perfect Ear of Corn

Notice the good sound kernels from end to end and the well filled cob from butt to tip. And most of all—notice closely, the big heavy ear and hard flinty corn.

This is the kind of corn that won the prize at Purdue University for Mr. J. A. Warren, of Grasmere Farms.

One hundred and twenty-seven bushels per acre—on five acres—is the yield that took the Gold Medal and set a near corn record for the world.

Mr. Warren doubtless feels proud of the

medal which he won on his corn and the congratulations he received on this excellent crop.

Yet—his success as a corn grower is not mysterious—but a result of mixing brains with labor and the liberal use of Federal Fertilizer.

Like Mr. Warren—the farmers of your community can make the extra bushels that pay the profit by applying these crop growing elements found in every bag of Federal Complete Fertilizer.

### RICHLY AVAILABLE PHOSPHORUS—

To make big heavy ears and a well filled cob

### GRADUATED NITROGEN

To insure sound kernels and hard flinty corn

### SOLUBLE POTASH—

For a big yield and a big paying crop

And Federal Fertilizer is a winner on every field—corn, oats, truck crop or tobacco—furnishing you in all the largest amount of actual available plant food for the least amount of money. If your dealer can not furnish you Federal Ferti-

lizers—Globe, Fox, Daybreak, O-K or First-Prize Brands—that produce banner crops, write us for prices and terms. Mention this paper and we will send you FREE, Corn Champion Warren's great book on Profitable Crops.

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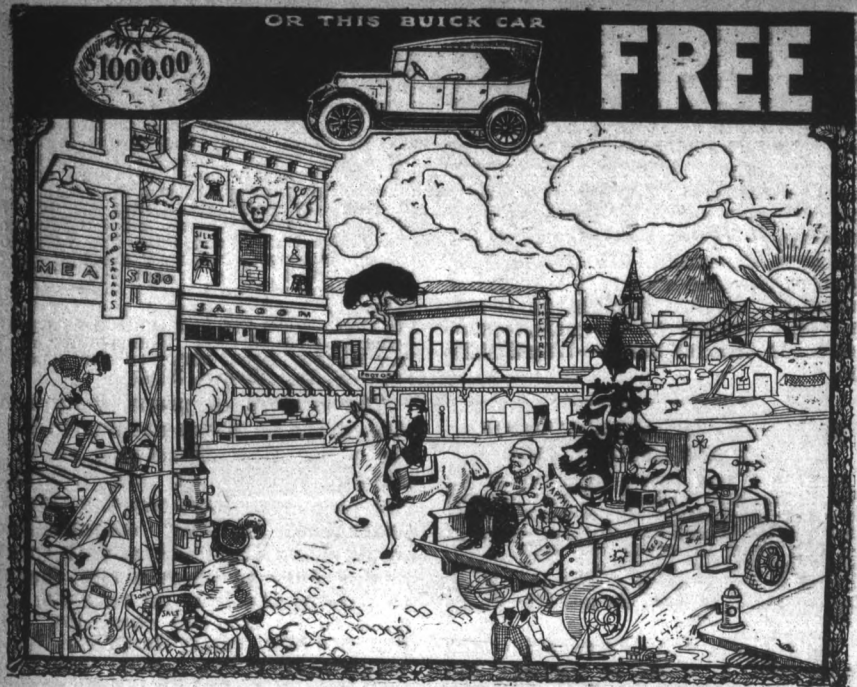
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First in the Yield







## A Brand New "S" Word Puzzle

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Here is the best puzzle yet. See how many objects you can find in this picture beginning with the letter "S". They're all right in plain sight and they are most words that you know. Sit right down now with pencil and paper and send in your list. It's lots of fun.

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### Costs You Nothing To Try

**RULES.** 1. Anyone living outside of Minneapolis and St. Paul except employees of the Rural American and their relatives may win a prize. 2. All answers must be written on one side of the paper with each word numbered. 3. Only words found in the English dictionary will count. Compound, hyphenated or obsolete words will not count. When plural is used singular of same word will not count and vice versa. 4. Words of same spelling use only once. Any part of an object may be named as well as object itself. Correct words will count one point, incorrect words will count off one point. 5. The answer having the largest, nearest correct list of names of visible objects beginning with the letter "S" shown in the picture will be awarded first prize, etc. In case of tie, duplicate prizes

will be given. 6. Three prominent men of Minneapolis having no connection with the Rural American will judge the answers and award the prizes. Their decision must be accepted as final. 7. All answers must be mailed by March 11th, 1922. Winners and the correct list of words will be published in the Rural American as soon as possible after close of contest.

### What You Get

IF YOU WIN	IF YOU SEND	No subscriptions	\$1 worth of subs. of subs.	\$3 worth of subs. of subs.	\$5 worth of subs. of subs.
1st prize	\$25	\$50	\$250	\$1000	
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3rd	15	30	125	300	
4th	8	20	75	200	
5th	5	15	50	100	
6th	4	8	35	50	
7th-15th	3	6	10	20	
16th-30th	2	3	5	10	
31st-50th	1	2	3	5	

### Guarantee

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Send Your Answer to S Puzzle Manager, Dept. 103, The Rural American, Minneapolis, Minn.

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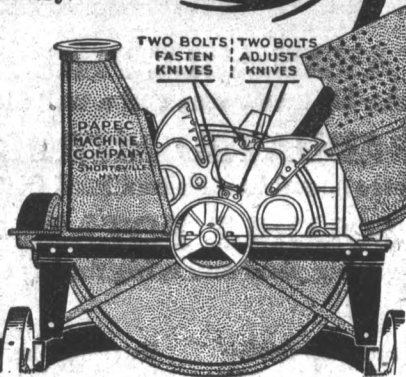
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## What the Neighbors Say

**TAXES AND EVERYTHING**  
WAS just reading a piece from Mt. Clemens Monitor, saying it would make the taxpayer grunt to pay his taxes this year. But it was just what he voted for. Now how many people in our county vote for raising money that never pay one dollar tax and never will.

They don't care if we lose our home or not. There was \$60,000 voted for to build a county hospital for a few poor people. Word comes they have used \$90,000 and are not done yet. Who voted for that. Who voted to raise our county officials' salary, and who will pay that? And now it is our country schools. We are satisfied our children are healthy and as far advanced as the city children but they want another chance to rob us, make three times the school tax we have now.

The farm papers talk of helping the farmer and sending people to Washington to help us.

It looks like a farce to me for they are robbing us at every turn. Men we trusted and put in office are taking the bread out of our children's mouths, and our homes. Truly we are surrounded by thieves. Our tax for 1921 is three times as much as it was in 1918 and no direct road tax either.

So you see what help we are getting. It would be some better if people who do not pay tax could not vote to raise money, but as it is we will soon be done paying taxes.—Old Subscriber, Macomb County, Mich.

Yes, it does seem a little hard upon the taxpayers to let non-taxpayers vote upon questions involving the expenditure of money. There is no doubt but what a good many bonding propositions and other schemes to spend the people's money would never had been authorized without the non-taxpayer's vote. The county hospital you speak of was needed, very badly. Conditions at the county farm were such that no self-respecting community could permit them any longer. Seems like a large sum of money they are spending, however. But it has to be done sooner or later and doing it now means that it will not have to be taken care of later. The trouble is that we have authorized too many money-spending projects in too short a period of time. This is true of state, county, city and town. The Business Farmer is frankly worried over the tax problem and wondering how the burden is going to be carried the next four and five years.—Editor.

### SANTA CLAUS

I JUST finished reading Uncle Rube's letter to the kiddies, in regard to Christmas, in the Jan. 14th issue of the M. B. F. and I honestly must say I do not approve of it. I believe it very wrong to impress on the mind of a child the thought that there is such a person as Santa Claus. For the time will come, when they will be made to realize that there is nothing to it. So why try and make a child believe such stuff.

I would far rather have my children know that the presents they receive at Christmas, come from papa and mama, than from some mysterious person, whom no one has ever seen. But that is not the real issue; it is putting Santa Claus in the fore-ground, and putting the Christ Child in the background.

I believe that every christian father and mother ought to teach their children the real essence of Christmas, and impress on their young minds that we celebrate it to commemorate the greatest gift that was ever given to mankind, the gift of God to the world, of his own dear Son, and that through that gift, we might have eternal life; and that when this child became a man, he gave out the invitation, "Suffer the children to come unto me and forbid them not, for of such is the Kingdom of Heaven."

To tell the kiddies that the thought of there not being a Santa Claus, is preposterous, and that the people are cruel and wicked, who claim there is no Santa Claus, is impressing the child's mind with a wrong thought.

Then again, the child reasons things. For instance, a poor family and a well-to-do family, live across the street from each other. The children of the poor family are given

to understand that Santa Claus is hard up this year, and will not be able to give them much, and that they must not expect much. Very well, after Christmas morning the poor children call on the children of the well-to-do family, and take note of the nice and expensive presents Santa Claus has given them, and mind you it is the same Santa Claus. And then they reason to themselves, if Santa Claus was rich enough to give the well-to-do family's children such nice presents, he surely ought to be able to give them the same. And so they consider that they did not get a square deal, and they become dissatisfied with their own presents, whereas, if they had been informed of the true state of things, they would have been contented.

Our children are grown up now, but we never deceived them, they knew who was the giver of the presents they received. Now I am sure Uncle Rube will pardon me for writing this way, and finding fault; but it grieves my heart to think that the Christ Child is put in the background, and the kiddies made to believe that all Christmas is for is because on that day Santa Claus comes to bring them presents, which they in later years must find out is nothing but a delusion after all. And then they lose their respect and reverence for the day in which our Saviour was born.—Luke Hyman, St. Clair County, Mich.

People do wrong who do not teach their children the true meaning of Christmas at the same time they fire their little imaginations with stories of Santa Claus. But it is very hard to make little children understand the great deity called God, and harder still to make them understand how He gave His son for the salvation of mankind. They may ask us who God is and where He lives. We tell them God is our father and that He lives in the heavens. In a sense of the word we deceive them for even we ourselves do not know the abode of God. As a matter of fact we cannot impress these little minds with the great spiritual truths without deceiving them. We must resort to simile, metaphor, personification and other figures of speech in order to convey to them a picture which will form an impression upon their minds. But we cannot move them to understanding by abstract instruction. How much easier it is to paint them a picture of a big jolly fellow who lives at the North Pole and each year drives his galloping reindeer through the sky bearing gifts to good little boys and girls. Here the idea of reward for being good is impressed upon their minds. True, it is a material reward, but they are too young to understand the spiritual reward, and when they are old enough to know that Santa Claus is not a physical being they will be old enough to understand something of the spiritual. But the incentive that has been given them for being good will have had its effect.

One of my little girls will not reach another Christmas without knowing that Santa Claus is a myth. She suspects as much now. She said the other day: "Mama, is there really a Santa Claus?" "Well, haven't you seen him?" was the reply. "Y-e-s," she said hesitatingly, "if I could see you and daddy and grandpa and grandma sitting there on the couch together and Santa Claus came, then I'd believe for sure he was real." Before next Christmas comes around she will know the truth and then will be the time to take her on our lap and tell her as best we can what Santa Claus typifies and why we have taught her to believe in him. She will not be disappointed, for the truth will have dawned on her gradually. Having entertained a belief in a Santa Claus will I am sure, more readily accept and understand the divinity of God and Christ. By all means let us teach our children early in life to know and love Christ and the true meaning of Christmas, but need we rob them of their joy in Santa Claus at the same time?—Editor.

### LUCE COUNTY AGENT MAKES MONEY FOR FARMERS

IN YOUR issue of December 10, F. E. B., Luce county, Mich., states: "We are coming to the conclusion here that the county agents are an unnecessary bill of expense. I know a lot of our neighbors can not see where we benefit a dollar a year and look at the expense to the state."

Last year we bought a few bushels of certified Rosen Rye through the agricultural agent of Luce county. As those who raised a crop from it would not sell any this fall, we ordered first from the same county agent about 30 bushels and a little later enough more to make up 86 bushels. It cost 30 cents a

(Continued on page 16)



# FRUIT and ORCHARD

EDITED BY FRANK D. WELLS

## BEST VARIETIES OF APPLES TO PLANT

THERE are more than a thousand varieties of apples. The wise orchardist may choose half a dozen. Later he will wish he had three or four.

Of all varieties the Spy has been called the king of apples. Probably no variety has more friends. The chief objection is the long wait before a crop of importance is to be had. Fifteen years is hardly long enough. But by new methods a crop can be had in seven or eight years, which ought to double the popularity of this tree among planters.

The Baldwin has been a favorite, but now it is little planted. The trees do not stand the winters of the northern apple district and in warmer localities the fruit is poor. According to the government reports there were few Baldwin trees left uninjured by the winter of 1917-18.

An old variety that still has many friends is the Rhode Island Greening. It does not bring the highest price on account of the color, but it is a reliable bearer and is always in demand by those who know it. Unfortunately, the Northwestern Greening, an inferior variety, has been sold for it, which has brought it into disrepute.

Few apples sell better than the Fameuse or Snow. It is liable to apple scab and the disease of a similar nature, but when well sprayed there is little trouble from this source.

The Red Canada is a firm fruit, but a poor tree. It seems to do best when top-worked on some more vigorous stock.

Probably no apple has been the cause of more profanity than the Ben Davis. But the tree bears when others do and when others do not. The fruit is poor when other apples are good, but good when others are gone, which is in the spring and early summer. Many orchard men claim that it has been the most profitable of any variety. But with improved facilities for keeping and marketing better kinds, the Ben Davis is not so promising for the future.

As an apple of quality the Delicious has a place among the best. Some orchardists prefer top-worked trees of this variety.

The McIntosh is larger than the Snow and of excellent quality. Its dark red color makes it very attractive. There is considerable complaint about the liability to drop.

Among the varieties that begin bearing early the Jonathan is the most popular. The fruit is of good quality and beautiful to look at. So many Jonathans have been set that there has been some fear of an over-supply, but thus far the market has not had too much of the fruit.

The Grimes' Golden Pippin is an apple of fine flavor and attractive appearance. The tree bears early and so heavily that thinning ought not to be neglected. Unfortunately, unless the tree is carefully grown crotches will form which are easily broken by the load of fruit.

The Wagener is the first tree to begin bearing and the first to begin dying of old age. For these reasons it has been recommended for a "filler," among varieties slow to bear. This kind of an orchard is good in theory, but is not looked upon with as much favor as formerly. However, an orchard of Wageners, planted alone on heavy soil should be good for many years.

For the fall varieties the Wealthy and the Duchess are most in favor. In some places the Gideon is in demand. It is inferior in quality, but is good for cooking.

Now from this it may be concluded that there are no safer varieties than the Spy, Greening and Snow or McIntosh. If top-worked trees are allowed, the Red Canada and the Delicious might be included. That will make five varieties, which is found to be enough in commercial orchards that are at some distance from market.

Contrary to the common practice, we would advise planting the Jona-

than, Grimes and other early-maturing trees by themselves and not in with the afore mentioned five varieties. They should be considered as belonging to a class by themselves. They give results quickly, but for a shorter time. The object in this case is to get as much as possible in a comparatively few years. In the other case the orchard is an investment for the future, slower to continue profitable for a long period.

If there is a good market near enough for trucking, the summer and fall varieties are good. Red Astrachan, but not many, followed by the Yellow Transparent and later by the fall varieties mentioned, are proving profitable. In this list there are many choice varieties omitted. Would it be advisable to include some of them? In some cases it might be. Allowance must be made for local conditions and for the fancy of the orchard owner. The Roxbury Russett, for one. At one time there was little call for it, but now some growers are doing well by pitting it for the spring auto trade. The old Rambo is another that might be desirable for those who buy for flavor rather than looks. Jefferis, Chenango, Fall Pippin. Wineapple, Smith's Cider, might be made profitable by one who would take the time and trouble to secure a special trade. But as to that, let each one decide for himself.

## HORSESHOE PITCHING

It is our opinion that the farm family is as much entitled to healthy amusement as city folks and that horseshoe pitching is just as good sport and requires just as much skill as golf or tennis. The Business Farmer is encouraging township, county and state-wide championship games to find a Michigan challenger for the national championship. We invite correspondence from those interested and will send a copy of the National Rules free on request addressed to the Horseshoe Editor, The Business Farmer, Mt. Clemens, Mich.

### JACKSON COUNTY SERIES

We are very interested in horseshoe pitching in this community. We had a contest last October. The contest was staged by the Summit Farmers' Club at my farm, and the prizes awarded were gold-plated horseshoes. Both men and ladies played. The men played each for himself while the ladies played in teams of two. Mr. Eli Rainey won the gentlemen's prize and Miss Pauline Kennedy and Arlene Lyons won the ladies' prize. I venture to say that these girls can beat any girls of their age in the state. We have teams of men that would like to play any other county.

I see that the standard distance to pitch is forty feet. We have been pitching 36. What is the standard distance for ladies and how heavy should the shoes be?

We have good times during the summer playing the game. We meet and play nearly every week. And we have some very good players. We would like to hear from other pitchers.—Edwin Lyons, Jackson County, Mich.

Glad to hear about your contest and if there were any others held in the state during the past year I would like to know about them. Or if you are going to hold a series of games let me put a notice in this department. The standard distance recommended for woman pitchers is 30 feet. The shoes are of the same weight as those used by the men. Is there a team from some county that would like to play the Jackson county champions? If there is write me and I will arrange the matter for you.

### GOOD EXERCISE FOR GRANGE MEMBERS

Being lecturer of the Davis Grange of Macomb county I am very much interested in horseshoe pitching, as I like to see the older members have some good amusement and base ball is to exerting. to get any enthusiasm when it comes to a contest. Would like a copy of the national rules.—Mrs. Wm. Krause, Jr., Macomb County, Mich.

### SERIES IN FLORIDA

Please send me a copy of the national rules. We have no organization but sometimes pitch for the fun. Where I stayed last winter at Eustis, Fla., they had some championship games between different cities.—E. C. C. Tipton, Mich.

### PLAY AT CLUB MEETS

Will you please send me your book of national horseshoe pitching rules. We have a rural community club organized in this neighborhood and would like to introduce this good old game.—Floyd L. Crouse, Wexford County, Mich.

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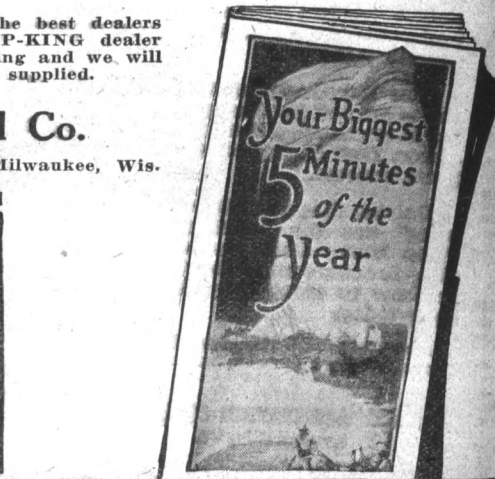
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## OUR WORD TO THE FARMER WHO CARES:

Refer to issue of February 4, on page 8 Please  
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## Nomads of the North

A STORY OF THE GREAT OUTDOORS

By JAMES OLIVER CURWOOD

Michigan's Own and America's Foremost Author of Wild Life Romance

(Copyright by Doubleday, Page & Co.)

(Continued from last week)

HAD two or three attacked him at once he would have died as quickly as the first two of his enemies had come to their end. Numbers saved him in the first rush. On the level of the plain he would have been torn into pieces like a bit of cloth, but on the space at the top of the kopie, no larger than the top of a table, he was lost for a few seconds under the snarling and rending horde of his enemies. Fangs intended for him sank into other wolf-flesh; the madness of the pack became a blind rage, and the assault upon Miki turned into a slaughter of the wolves themselves. On his back, held down by the weight of bodies, Miki drove his fangs again and again into flesh. A pair of jaws seized him in the groin, and a shock of agony swept through him. It was a death-grip, sinking steadily into his vitals. Just in time another pair of jaws seized the wolf who held him, and the hold in his groin gave way. In that moment Miki felt himself plunging down the steep side of the knoll, and after him came a half of what was left alive of the pack.

The fighting devils in Miki's brain gave way all at once to that cunning of the fox which had served him even more than claw and fang in times of great danger. Scarcely had he reached the plain before he was on his feet, and no sooner had he touched his feet than he was off like the wind in direction of the river. He had gained a fifty-yard start before the first of the wolves discovered his flight. There were only eight that followed him now. Of the thirteen mad beasts five were dead or dying at the foot of the hill-lock. Of these Miki had slain two. The others had fallen at the fangs of their own brethren.

Half a mile away were the steep cliffs of the river, and at the edge of these cliffs was a great cairn of rocks in which for one night Miki had sought shelter. He had not forgotten the tunnel into the tumbled mass of rock debris, nor how easily it could be defended from within. Once in that tunnel he would turn in the door of it and slaughter his enemies one by one, for only one by one could they attack him. But he had not reckoned with that huge gray form behind him that might have been named Lightning, the fiercest and swiftest of all the mad wolves of the pack. He sped ahead of his slower-footed companions like a streak of light, and Miki had made but half the distance to the cairn when he heard the panting breath of Lightning behind him. Even Hela, his father, could not have run more swiftly than Miki, but great as was Miki's speed, Lightning ran more swiftly. Two thirds of the distance to the cliff and the huge wolf's muzzle was at Miki's flank. With a burst of speed Miki gained a little. Then steadily Lightning drew abreast of him, a grim and merciless shadow of doom.

A hundred yards farther on and a little to the right was the cairn. But Miki could not run to the right without turning into Lightning's jaws, and he realized now that if he reached the cairn his enemy would be upon him before he could dive into the tunnel and face about. To stop and fight would be death, for behind he could hear the other wolves. Ten seconds more and the chasm of the river yawned ahead of them.

At its very brink Miki swung and struck at Lightning. He sensed death now, and in the face of death all his hatred turned upon the one beast that had run at his side. In an instant they were down. Two yards from the edge of the cliff, and Miki's jaws were at Lightning's throat when the pack rushed upon them. They were swept onward.

The earth flew out from under their feet, and they were in space. Grimly Miki held to the throat of his foe. Over and over they twisted in mid-air, and then came a terrific shock. Lightning was under. Yet so great was the shock, that, even though the wolf's huge body was under him like a cushion, Miki was stunned and dazed. A minute passed before he struggled to his feet. Lightning lay still, the life smashed out of him. A little beyond him lay the bodies of two other wolves that in their wild rush had swept over the cliff.

Miki looked up. Between him and the stars he could see the top of the cliff, a vast distance above him. One after the other he smelled at the bodies of the three dead wolves. Then he limped slowly along the base of the cliff until he came to a fissure between two huge rocks. Into this he crept and lay down, licking his wounds. After all there were worse things in the world than Le Beau's trapline. Perhaps there were even worse things than men.

After a time he stretched his great head out between his forepaws, and slowly the starlight grew dimmer, and the snow less white, and he slept.

## CHAPTER FIFTEEN

IN a twist of Three Jackpine River, buried in the deep of the forest between the Shamattawa country and Hudson Bay, was the cabin in which lived Jacques Le Beau, the trapper. There was not another man in all that wilderness who was the equal of Le Beau in wickedness—unless it was Durant, who hunted foxes a hundred miles north, and who was Jacques's rival in several things. A giant in size, with a heavy, sullen face and eyes which seemed but half-hidden greenish loopholes for the pitiless soul within him—if he had a soul at all—Le Beau was a "throw-back" of the worst sort. In their shacks and teepees the Indians whispered softly that all the devils of his forebears had gathered in him.


It was a grim kind of fate that had given to Le Beau a wife. Had she been a witch, an evil-doer and an evil-thinker like himself, the thing would not have been such an abortion of what should have been. But she was not that. Sweet faced with something of unusual beauty still in her pale cheeks and starving eyes—trembling at his approach and a slave in his presence—she was, like his dogs, the property of The Brute. And the woman had a baby. One had already died; and it was the thought that this one might die, as the other had died, that brought at times the new flash of fire into her dark eyes.

"Le bon Dieu—I pray to the Blessed Angels—I swear you shall live!" she would cry to it at times, hugging it close to her breast. And it was at these times that the fire came into her eyes, and her pale cheeks flushed with a smouldering bit of the flame that had once been her beauty. "Some day—some day."

But she never finished, even to the child, what was in her mind.

Sometimes her dreams were filled with visions. The world was still young, and she was not old. She was thinking of that as she stood before the cracked bit of mirror in the cabin, brushing out her hair, that was black and shining and so long that it fell to her hips. Of her beauty her hair had remained. It was defiant of The Brute. And deep back in her eyes, and in her face, there were still the living, hidden traces of her girlhood heritage ready to bloom again if Fate, mending its error at last, would only take away forever the crushing presence of the Master. She stood a little longer before the bit of glass

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when she heard the crunching of footsteps in the snow outside.

Swiftly what had been in her face was gone. Le Beau had been away on his trapline since yesterday, and his return filled her with the old dread. Twice he had caught her before the mirror and had called her vile names for wasting her time in admiring herself when she might have been scraping the fat from his pelts. The second time he had sent her reeling back against the wall, and had broken the mirror until the bit she treasured now was not much larger than her two slim hands. She would not be caught again. She ran with the glass to the place where she kept it in hiding, and then quickly she wove the heavy strands of her hair into a braid. The strange, dead look of fear and foreboding closed like a veil over the secrets her eyes had disclosed to herself. She turned, as she always turned in her woman's hope and yearning, to greet him when he entered.

The Brute entered, a dark and surly monster. He was in a wicked humour. His freshly caught furs he flung to the floor. He pointed to them, and his eyes were narrowed to menacing slits as they fell upon her.

"He was there again—that devil!" he growled. "See, he has spoiled fisher, and he has cleaned out my baits and knocked down the trap-houses. Par les mille cornes du diable, but I will kill him! I have sworn to cut him into bits with a knife when I catch him—and catch him I will, to-morrow. See to it there—the skins—when you have got me something to eat. Mend the fisher where he is torn in two, and cover the seam well with fat so that the agent over at the post will not discover it is bad. Tonnerre de Dieu!—that brat! Why do you always keep his squalling until I come in? Answer me, Bete!"

Such was his greeting. He flung his snowshoes into a corner, stamped the snow off his feet, and got himself a fresh plug of black tobacco from a shelf over the stove. Then he went out again, leaving the woman with a cold tremble in her heart and the wan desolation of hopelessness in her face as she set about getting his food.

From the cabin Le Beau went to his dog-pit, a corral of saplings with a shelter-shack in the centre of it. It was The Brute's boast that he had the fiercest pack of sledge-dogs between Hudson Bay and the Atna-basca. It was his chief quarrel with Durant, his rival farther north; and his ambition was to breed a pup that would kill the fighting husky which Durant brought down to the Post with him each winter at Near Year. This season he had chosen Netah ("The Killer") for the big fight at God's Lake. On the day he would gamble his money and his reputation against Durant's, his dog would be just one month under two years of age. It was Netah he called from out of the pack now.

The dog slunk to him with a low growl in his throat, and for the first time something like joy shone in Le Beau's face. He loved to hear that growl. He loved to see the red and treacherous glow in Netah's eyes, and hear the menacing click of his jaws. Whatever of nobility might have been in Netah's blood had been clubbed out by the man. They were alike, in that their souls were dead. And Netah, for a dog, was a devil. For that reason, Le Beau had chosen him to fight the big fight.

Le Beau looked down at him, and drew a deep breath of satisfaction.

"Ow! but you are looking fine, Netah," he exulted. "I can almost see running blood in those devil-

eyes of yours; oui—red blood that smells and runs, as the blood of Durant's paws shall run when you sink those teeth in its jugular. And tomorrow we are going to give you the test—such a beautiful test!—with the wild dog that is robbing my traps and tearing my fishers into bits. For I will catch him, and you shall fight him until he is almost dead; and then I shall cut his heart out alive, as I have promised, and you will eat it while it is still beating, so that there will be no excuse for your losing to that poos which M'sieu Durant will bring down. Comprenez? It will be a beautiful test—to-morrow. And if you fail I will kill you. Oui; if you so much as let a whimper out of you, I will kill you—dead."

#### CHAPTER SIXTEEN.

THAT same night, ten miles to the west, Miki slept under a windfall of logs and tree-tops not more than half a mile from Le Beau's trapline.

In the early dawn, when Le Beau left his cabin, accompanied by Netah, The Killer, Miki came out from under his windfall after a night of troublous dreams. He had dreamed of those first weeks after he had lost his master, when Neewa was always at his side; and the visions that had come to him filled him with an uneasiness and a loneliness that made him whine as he stood watching the dark shadows fading away before the coming of day. Could Le Beau have seen him there, as the first of the cold sun struck upon him, the words which he had repeated over and over to The Killer would have stuck in his throat. For at eleven months of age Miki was a young giant of his breed. He weighed sixty pounds, and none of that sixty was fat. His body was as slim and as lean as a wolf's. His chest was massive, and over it the muscles rolled like babiche cord when he moved. His legs were like the legs of Hela, the big Mackenzie hound who was his father; and with his jaws he could crack a caribou bone as Le Beau might have cracked it with a stone. For eight of the eleven months of his life the wilderness had been his master; it had tempered him to the hardness of living steel; it had wrought him without abeyance to age in the mould of its pitiless schooling—had taught him to fight for his life, to kill that he might live, and to use his brain before he used his jaws. He was as powerful as Netah, The Killer, who was twice his age, and with his strength he possessed a cunning and a quickness which The Killer would never know. Thus had the raw wilderness prepared him for this day.

As the sun fired up the forest with a cold flame Miki set off in the direction of Le Beau's trapline. He came to where Le Beau had passed yesterday and sniffed suspiciously of the man-smell that was still strong in the snowshoe tracks. He had become accustomed to this smell, but he had not lost his suspicion of it. It was repugnant to him, even as it fascinated him. It filled him with an inexplicable fear, and yet he found himself powerless to run away from it. Three times in the last ten days he had seen the man-brute himself. Once he had been hiding within a dozen yards of Le Beau when he passed.

This morning he headed straight for the swamp through which Le Beau's traps were set. There the rabbits were thickest, and it was in the swamp that they most frequently got in Jacques's Kekeks—the little houses he built of sticks and cedar boughs to keep the snow off his baits. They were so numerous that they were a pest, and each time that Le Beau made his trip

(Continued on Page 20)

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# The Michigan BUSINESS FARMER

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## Your Son

**T**ELL us, Dad, what are your relations with your son. Oh yes, we know that you feed him, clothe him and educate him. But these are not the things we have in mind. If that is all you are doing for your children you are a mighty poor father, indeed.

The things which children value most highly and have the largest influence in moulding worthy characters are too often denied them. Yet they cost nothing. They are love, kindness, sympathy and above all comradeship.

Let us drop into two farm homes right here in Michigan. In the first home father no sooner gets his boots on in the morning than he calls son John to get up. John has been to a box social the night before and is sleepy. Mother remonstrates and says, "let him sleep a little longer". But, no sir-ee. Dad didn't lie abed mornings when he was a kid and his son isn't going to. In this particular household father always has his way, so he yells to son John again and threatens him with some blood curdling punishment if he doesn't get out of bed "this minute". Poor John would like another wink but he does not dare to brave the wrath of his stern old dad, so he gets up, dresses and steals fearfully down the stairs where he encounters dad and gets a snarl for having been out so late the night before. Chores, breakfast, the day's work, all done in silence and trembling lest some slip, an accident, a break in the harness may hold up the work and incite dad to harsh words. "Spare the rod and spoil the child", is the motto of this father who whips his children on the slightest pretext, yells at them as if they were the neighbor's cattle in the cornfield, and never speaks a kind word to them lest they may think there is going to be a let-up in the discipline. This father prides himself that he has his children well-trained and has instilled in them respect for their elders. What he has really done is to break their spirit and fill them with dread of his presence.

In the second farm home another son John has been up late the night before. Father steps to the stairway to call him, then remembering the days when he was young himself and occasionally stayed up late, hesitates and says to mother, "guess we'd better let son sleep a little longer this morning. He's probably tired." So son John sleeps peacefully on and gets down stairs as dad is finishing breakfast. Father and son greet each other pleasantly and father inquires if John had a good time the night before. John, appreciating his father's kindness in not calling him at the usual hour, hurries through breakfast and to work. Having slept well and hoping to surprise his father by an extra large amount of work John labors like a Trojan all day long, and stops at night with the positive

knowledge that dad will have a good word to say for what has been accomplished.

Love reigns supreme in this farm household. Father treats his children as flesh and blood should be treated and not as stray dogs looking for bones. A harsh word is seldom spoken. Father shows interest in the pranks of his children and often joins in with them. Here is true comradeship, sympathy and understanding which fosters respect and intensifies the love of the children for their parents.

You may tell what kind of a father a man may be by a simple test. When he comes to the house from work or town and the children run to meet him with happy smiles on their faces, you may be sure that here is a kind father who is beloved by his children. But if he reaches his door without being greeted by his children and if his footstep is the signal for the silencing of childish prattle, you may also be sure that here is a father who neither loves nor is loved.

Which kind of a father are you?

## The Banker and the Farmer

**I**S THE banking business run on a double standard? Does the city business man often get credit which is denied the farmer though the security offered be the same? The average banker will, of course, indignantly deny these allegations but there is ample evidence to prove that they are true. While we know of many bankers who are doing everything possible to help out their farmer customers during this stringent period we know of many others who have no such conception of their duty to their community.

It is now well established that the federal reserve banks forced liquidation of farm loans at the same time they were handing out money lavishly to speculators. Farmers who needed legitimate loans to carry on their farming business were often turned down whilst men engaged in the questionable enterprise of playing the stock market had no difficulty in getting all the money they needed to finance their operations. More recently information comes that farmers in Michigan are not only being refused additional loans with which to make absolutely necessary purchases but are being pressed to pay their existing indebtedness. But we have heard of no cases of city business men with good security to offer being refused their usual line of credit.

It is true that many banks are loaned to the limit. And banks, being merely the custodians of money deposited with them must be careful not to overloan and jeopardize the interests of their depositors. The deposits in Michigan banks have shrunk considerably and their loans have increased during the past two years so that bankers must proceed with extra caution. In insisting that banks liquidate their outstanding loans as rapidly as possible the state banking department is pursuing a wise course. But even this policy can be carried to extreme, and it begins to appear that in its zeal to protect depositors in Michigan banks the department has adopted an unnecessarily harsh policy toward farmer borrowers, a policy which if persisted in will sooner or later work great hardship upon our

## DO YOU NEED MONEY?

**T**HE state banking department has positively assured the Business Farmer that it does not want to see worthy farmers suffer from lack of funds. This department does not loan money and cannot force banks to loan money. But it can and it will encourage bankers to adopt a more lenient attitude toward farm paper. Therefore, if any reader who is a patron of a state bank (private banks do not come within the jurisdiction of the banking department) is having difficulty getting his loans renewed or borrowing additional money for necessary purposes, he should go to his county agent, who is paid a salary by the state and nation to help farmers. Tell him your story and ask him to intercede with your banker. If he refuses or fails to get the desired help, then report the facts to the Business Farmer.—Editor.

farmers and force many of them to quit their business or curtail their farming operations.

We are glad to say, however, that the banking department has been convinced of the folly of its former course and promises to take a more liberal attitude toward farm paper. As a result we look for a decided improvement in the farmer's credit in many sections of the state.

## Taxes and Education

**N**OW and then a subscriber will propound a question to us which we cannot answer but it sets us to thinking. Here is an example:

Mr. A is a prosperous citizen of a small town up-state. He writes life insurance, runs a grist mill, buys and sells farm produce. He was born on a farm but "graduated" early in life, and has never plowed a furrow. He is forty years old, out of debt, and has three children whom he wishes to give a good education. Instead of sending them to a 12-graded school in a nearby city (the school in this little town teaches only ten grades) he starts a movement to build a consolidated school.

Mr. B is a farmer over sixty years of age living near this village. He got his start in a lumber camp and has swung the cradle to cut his grain. He has two boys whom he wants to be farmers and believes that an eighth grade education is all they need. His taxes last year were over \$500, and it took all his cash crops, including beans, potatoes and rye to pay them. Mr. B has toiled all his life to create a sustenance for himself and family and finds his taxes are becoming too great a burden to bear. He says that if the consolidated school issue is passed he will sell out as he does not propose to educate the children of his neighbor in the village.

"Now we old fellows who have educated our children," writes a correspondent, "say, that it is a vicious and unfair law that would make us discard our eighth grade school and force us to educate the children of our forty-year-old neighbor in town to the twelfth grade when our own children could only get an eighth grade education at the taxpayer's expense."

What's the answer? We don't know. Do you?

## Woman and War

**T**HE growing influence of woman in national and world affairs makes her a formidable figure to reckon with in the waging of future wars. Woman has had no more to say in past conflicts than the dumb brutes of the field. She has given her all, and suffered in patient silence when those who were dearer to her than life itself went away to war never to come back. But in all these centuries woman as well as man has been asking herself, "what does it all mean? Why all these heartaches, this suffering and death?" And it is no small wonder that one of the first evils at which the enfranchised woman should direct her shafts is the evil of war.

"I pledge with all my heart and soul that so long as I live I will never raise my hand again to assist an armed conflict between nations", was the joint pledge in which two women, a British war mother and an American war mother took during the early days of the arms conference. How could there be another great war if all the mothers of America, of Great Britain, Japan, Germany and France should make that vow? What we want is a world association of mothers pledged to the cause of peace. Man has failed to prevent war. Give woman the chance.

## Educating the City Folks

**C**OMMISSIONER of Agriculture Halladay's idea of carrying on an educational campaign among city folks to acquaint them with agricultural problems is a worthy one. It used to be thought that most of the right smart folks hail from the city, but it is gradually dawning upon us that this isn't so. Despite the fact that many people now living in cities were born upon the farm they know an almighty lot less about the farmer than he knows about them. The speaking program outlined by Mr. Halladay's department includes Dean Russell of Wisconsin and Mrs. Dora Stockman of the Michigan Board of Agriculture. It may not reach a large number of people. But if the meetings can sow a few little seeds of understanding here and there, they will not have been held in vain.



## Uncle Rube Spinach Says:

### THERE'S NOTHIN' WRONG WITH OUR GIRLS

EVERY once in a while or oftener, we read somethin' in the papers about our good American girls—how they are goin' to the bad, dress immodestly, act unbecomin'ly, are friv'lous an' rattle brained an' a lot of more such stuff an' it kinda raises my dander to a high degree 'cause I don't believe a word of it—not yet!

Now a good deal of this tommy rot is put out by men an' women who are would-be reformers—some of 'em call themselves preachers, some one thing an' some another. But no matter what they are nor who they are, they are only judging by outward appearances. If they could see into the inner life, into the hearts an' souls of our girls they would know that the girls of today are jest as sweet an' good an' fine as the girls of any other time has ever been. Trouble with most of these so-called reformers, they're livin' back behind the tin a, back fifty years or more ago an' they don't know that the world is progressin' at all, trust 'em for one thing though, the he reformers, the sobbers an' kill joys, they can always tell just what kind of stockin's the girls are wearin', they know within one-half of one per cent just how low in the neck the dresses are cut, they are very keen observers of everything that goes to make up the street attire of our young women, they can see all the faults of our girls farther'n a turkey buzzard can see a heap of carrion. Fact is, such people look for those things an' for nothin' else—if they didn't they wouldn't see 'em, or not so much of 'em anyway. To be sure, our girls don't dress as girls did fifty years ago an' nobody wants 'em to either. We don't run around horseback nor in old open buggies like we used to do either. We don't cut wheat with a cradle nor flail it out as it used to be done. We have better methods an' the young folks of today are only keepin' up with the times jest as they should do, reformers to the contrary not withstandin'.

There is lots of howlin' about one-piece bathin' suits for girls—how awful they are an' everything, an' yet young men have been wearin' 'em for years an' it's been all right 'cause they was the proper thing to wear. They were made for the purpose, were comfortable an' young fellers could swim in 'em with freedom an' in safety. But if girls wanted to go in swimmin' (bathin') they must put on more clothes than they would wear walkin' the streets, consequence was, few young women went swimmin' an' a whole lot of enjoyment was lost to them. Now it's always been all right for a woman to expose her bare arms at any time but to expose the least bit of her'er-er—well lower limbs

was scand'lous—it mustn't be done, it was jest awful, don't you know? An' yet there isn't one particle of difference between the texture of the skin on a girl's arm or leg—it's all the same an' I claim it's no worse to expose one then the other. Trouble is there's a difference in the state of mind with some folks an' some of the old fogies who set up such a howl regardin' girls are so carnal minded they can only think of bad things an' in a field of flowers they could only see the weeds that might be growin' there—the flowers would be entirely lost to them.

Goin' up town yesterday I happened onto a little wee mite of a girl that had dropped her dollie an' broken its head. The little miss was cryin' as if her heart was broken—"Oh," she cried, "it's my bestest dollie an' now it's broke all to pieces," an' the little dear was gatherin' up the pieces one by one though the tears from her eyes nearly blinded her.

Well now listen, just before I got to the little girl, a young lady came from the other direction—she was essed in the prevailin' fashion—short skirt, nearly to the knee, low necked dress—you know—she had the kind of outfit that is bein' condemned by so many of the defamers of our girls—our splendid girls, most of whom are far above reproach, an' this young woman, when she saw the little miss so heart broken, with all the mother instinct God has given to women, stopped, took the little tot in her arms, kissed an' soothed an' coaxed while I picked up the pieces of the broken dollie an' together we sent the poor little girl to her home but not until the young lady had promised that she would send another doll to replace the one so badly shattered.

Dear friends, it was the mother instinct that prompted the young lady to do the thing she did an' as long as the mother instinct remains with our girls no one need to worry about 'em at all, they'll come through all right an' make jest as good mothers, an' jest as good wives as the girls of fifty or a hundred years ago.

Girls may do things that to older folks seem silly, the older folks, in their younger days did things jest as silly in the eyes of the older folks of that day, but they have proven their worth in million of ways an' so will our girls of today. The motherhood is in them an' will keep them. When our would-be reformers get so they can see into the heart an' soul of our girls—when they take their eyes off'n their stockin's an' see the goodness of the girls themselves we'll hear much less about the evil of our times—but then—the reformers will cease to be reformers an' will be human. Cordially yours.—UNCLE RUBE.

### MUSINGS OF A PLAIN FARMER

THIS is the barn that Jack built.  
This is the fodder that grew on a farm.  
That filled up the barn, That Jack built.  
This is the cow with the crumpled horn,  
That stood in the stanchion from night until morn,  
That ate up the fodder that grew on the farm,  
That filled up the barn, that Jack built.  
This is the farmer all tattered and torn,  
That arose in the morning, all falorn,  
That milked the cow with the crumpled horn,  
That stood in the stanchion from night until morn,  
That ate up the fodder,  
That grew on the farm,  
That lay in the barn,  
That Jack built.  
This is the milk that went from the farm,  
That was sold to the jobber, all shaven and shorn,

That rode in the car with the loud sounding horn,  
That jollied the farmer all tattered and torn,  
That milked the cow with the crumpled horn,  
That stood in the stanchion from night until morn,  
That ate up the fodder,  
That grew on the farm,  
That lay in the barn,  
That Jack built.  
That sent the milk all frothy and warm,  
That was sold to the jobber, all shaven and shorn,  
That rode in the car with the loud sounding horn,  
That jollied the farmer all forlorn,  
That milked the cow with the crumpled horn,  
That stood in the stanchion from night until morn,  
That ate up the fodder,  
That grew on the farm,  
That lay in the barn,  
That Jack built. —A. P. Ballard.

## Westclox

### Prices for 1922

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Bunkie . . . \$2.75	Big Ben Luminous \$4.75
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#### WATCHES

Pocket Ben . \$1.50	Glo-Ben . . . \$2.50
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## ST. VALENTINE'S DAY

IN the January 1st issue of the M. B. F. I noticed an article on St. Valentine's Day. I would like to suggest another reason for the custom of sending valentines on February 14.

Legend says that St. Valentine, while in prison made a pet of a pigeon and sent messages by it to his many friends because he was so fond of them and could not see them. The many friends who were so fond of him, especially the children, loved the little messages of love sent to them by the one they loved (St. Valentine) so decided to retain the custom in memory of St. Valentine. Hence the use of pigeons with messages and the custom of sending messages of love to those we are fond of on February 14th, St. Valentine's Day. If I am not mistaken I believe February 14th was also St. Valentine's birthday.

I think the Farm Home page is fine. There is something in it for everyone.

Did you know that—

Cookies bake much nicer on the reverse side of pan?

A spoonful of flour dropped into the place where the juice is oozing out will aid in preventing pies from boiling over or leaking?

One half part fresh tallow and one half lard makes the finest kind of fat for frying fried cakes?

One cupful of dried apples soaked over night and cooked in a cupful of syrup until syrup is absorbed answers very nicely for raisins?

Butter will keep almost indefinitely when rolls are wrapped in clean cloths and kept under brine?

Grease hot enough for fried cakes will cause a match to light when drawn through it?

Graham flour makes fine cake and cookies? Will send recipe if desired.

In reference to article written on woman suffrage, I think the gentleman's accusations are unjust. He has probably seen a few of that type and jumps at conclusions that they all are. I am not in favor of woman suffrage myself, not because I think woman isn't intelligent enough, but because it is not her place. Women do not wish to be treated as men still they are striving to make men treat them as such. The idea may be all right theoretically but it is practical only to a small extent.

I do not believe in capital punishment. It doesn't give the convict any chance to be better. I always think of the saying of a woman who followed her son to the gallows: "It will teach him a lesson." A man can do no more harm when he is dead neither can he do any good, so give him a fighting chance. With best wishes for the success of M. B. F.—A Subscriber.

FROM OUR FRIEND IN MONROE  
SINCE the topic under discussion seems to be hearts, not only in the M. B. F. but in nearly every paper under publication at the present time, I think it not unwise to continue the discussion of the pros and cons pertaining thereto. Suppose we call this article "The Man-child."

The child is content to play with its little doll until of a sudden it thinks a diversion should be introduced, to relieve the monotony, with the result that it takes upon itself a new doll. Then for a short time there is much hugging and billing and cooing. But alas, too soon the gaudy paint and gold and tinsel disappear and then of a sudden the child wants the old doll back but strangely enough the old doll has no desire to return. It proves to be rather elusive, doesn't seem to want to play second fiddle. What happens then? Why there are lamentations and protestations and passages are taken from the scriptures and proverbs and adages and all the old sayings for the last hundred years or more are quoted, being very careful of course that they all favor the child. There is the forget-and-forgive stuff together with the golden rule, and others too numerous to mention and after all is said and done there follows a mist and a weeping rain and life is never the same again. Ye Gods! How can it ever be the same again?

Please do not forget dear readers that there are proverbs which con-

## The Farm Home

### A Department for the Women

Edited by MRS. GRACE NELLIS JENNEY

Dear Friends: This is your page today and all yours. I have so many interesting letters, the page is sure to please you. Next week will you be ready to hear from me on a few "Dental Facts?" I have some important things to tell you and things that will be of real value, too.—Editor.

tradict each other and that apply to every situation in which one is fortunate or unfortunate enough to be placed. The law courts realize this only too well. If they functioned according to these passages there would be no need for prisons and jailers, such things would be superfluous. And the whole world would be one large charnel house.

Verily, Verily, "The wages of sin are death," though very rarely for the sinner, but more frequently for some innocent person. Space will not permit me to enumerate any personal experiences at this time as this letter is getting rather long.

Mrs. T. M. N. has been kind enough to give us the very much desired information in regard to holding the affections of a wife. Thank you very much, Mrs. T. M. N. Now won't some one of our other readers give us the correct formula for holding a husband? My method seemed to meet with a storm of protest a short time ago.—J. F. B.

## SOME HELPFUL HINTS

I HAVE learned so many useful things from "Our Page" in M. B. F. that I want to write and say "thank you" to the editor-in-chief. I was more than pleased just for the address of the Singer Machine Co., in last week's paper. It is so kind to pass along the little helps of this kind. The big ones seem to come more easily.

I am sending with this a few little suggestions that have proven a help to me in my busy life, that of caring for a family of six lively children together with my husband, (their father) usually an extra person or two and myself.

The dry fuzz from the marsh cat-tail mixed with clear lard or vasoline is a most excellent remedy for burns. I am never without a sack on my drug shelf.

I have found that to steam raisins, currants or any dried fruit be-

fore adding them to cake or puddings is a very great help. I put mine in a little basin in the steamer with just a little cold water they soon swell full size and have an excellent freshness.

An old magazine rolled in roll in children's stockings makes an aid to the darning.

A pint fruit jar (glass) makes an excellent receptacle for the tacks, screws, burrs, curtain fixtures, etc., in the repair cupboard. They can be readily seen without emptying and the time and patience are both saved. Thanking you for the time I have used. I am as ever interested in "Our" paper.—Mrs. B. B. O.

## MAKE THE BEST OF IT

HAVE been reading the Farm Home for quite a while and after reading those interesting letters about domestic trouble I thought I would write a letter and see what some of the folks thought of the trouble I have had.

First I was married for 13 years and had two babies which I lost in infancy. I married a man that soon left me alone. As I was about 2,000 miles from home and I am yet. I put up with it and my health was ruined.

Well, I stood it all for the sake of not letting my people know. Well he got so he would start and say he was going to leave me. And he has left me four times. The fourth time I applied for a divorce and also the third and each time I took him back. All my household goods were gone this fourth time he left and I said I would never take him back again, and here I am taking him back. But many times I think I am foolish because people say he will do the same thing again. He goes away for no reason at all. Yet he says he loves me. It seems neither one can do without the other when we are separated.

I am not very strong and can not get out and do a hard day's work.

## AIDS TO GOOD DRESSING

For Simplicity, Service and Style

(Patterns 12c)



An Attractive Style for House or Porch Wear

3849. Here is a very interesting design, with smart features. It is in one piece style, with skirt extensions beneath a vest that is outlined by long revers that form a collar over the back. The pockets may be omitted. The closing is effected at the left side under the revers. This is a good model for gingham, or percale, and is also nice for serge, gabardine, tricotine, and twill. It will be quite dressy in velvet or satin. Braid or braiding could be used for trimming.

The pattern is cut in 7 sizes: 36, 38, 40, 42, 46 and 48 inches bust measure. A 38 inch size requires 4 7-8 yards of 42-inch material. The width at the foot is a little more than 2 yards.



A Good Suit Style for A Small Boy

3857. Here is a smart and trim looking suit that will not be difficult to make, and will prove comfortable. It is good for serge or twill, as well as for velvet, and wash materials. The trousers close at the sides.

The pattern is cut in 4 sizes: 3, 4, 5 and 6 years. A 4 year size will require 2 yards of 44 inch material. In blue corduroy with white linen collar or brown serge, this makes a very serviceable suit.

A Slender Fashion For A Stout Form

3850. This model expresses a becoming style for the woman of mature figure. Whether of serge, velveteen, tricotine or velours, the vest may be embroidered or braided. The revers give length of line. The sleeves are a one piece model with comfort and ease in their lines.

The pattern is cut in 7 sizes: 36, 38, 40, 42, 44 and 48 inches bust measure. A 38-inch size requires 5 yards of 36-inch material. The width at the foot is about 2 1-4 yards.



Just the Right Dress For the Growing Girl

3858. Youth and grace are pictured in the lines of this frock. It lends itself to pleasing developments in crepe weaves, serge, taffeta, and wash materials. In crepe de chine, a touch of embroidery and a ribbon sash, will make this a nice frock for party or dance. In jersey or chambray, a very attractive afternoon dress may be evolved.



Maybe he knows that too. I am 35 years old now. He is 37 and we have no more when we go back together than before. Now he says this time, it being the second time, if I want the divorce to go ahead. He also said if I dropped the case that I could not apply for another for two years in this county, (Oakland.) I would like to know if that is so. Well I would like some of the readers to pass their opinion on my case. The older people say "You would be sorry if you got a divorce," and the younger ones say they would not bother one minute with him. Oblige one of your readers.—Mrs. Irene A.

Unless you can see your way to take care of yourself comfortably just make the best of the situation. Try not to worry and be cheerful, believing that in time your husband will see how much he is wronging you and himself and become the man he should be. Live your own life and try to become interested in things outside your home and dress as well as you possibly can. Don't scold, that never helps. Just be happy and contented, appear so anyway. I believe he will soon begin to see that your life is much happier and better than his.

## CORRESPONDENTS' COLUMN

A suggestion for your valentine party: Buy several boxes of materials which come all ready to make up into valentines and give prizes to the guests who make the prettiest valentines in the least time. You could also furnish some material for comic ones and give prizes for the most ludicrous ones. Furnish plain paper of different colors. Your guests will have much fun over them. Ask for original verses and let them be personal if you wish.

Mrs. H. V.—For authors who not choose some of more prominence. As Mary Conway Oehmler, author of "Slippy McGee." There is the book "Americanization of Edward Bok," by himself. Edith Wharton, O. Henry, Margaret Deland. All write so well and there are many more. There are better known authors. Let us include Jack London also. Any book store can get you books by these authors.

I do not see why frozen meat could not be canned. If any subscriber can give any information on the matter we will be glad to have it.

Mrs. N. H.—Whole wheat flour is meant, not graham. The Franklin Mills put a whole wheat flour on the market that is very good. The flour is fine but not so fine or smooth as white flour and is dark in color. Of course it is very nutritious and the bread is delicious. I gave my own recipe and know it to be all right.

Mrs. C. B.—You may apply the wax to your floor. It is not hard to do. Just wax the part of the floor that is exposed. Once in two weeks for shining, oftener for cleaning.

I want to thank the readers of our page who so kindly send information when requested. It just shows the friendly spirit of our readers.

## "If Your Heart Keeps Right"

In the January 21st issue I noticed on the Farm Home page a request for the words and music "If Your Heart Keeps Right." I have it in four books but I know anyone who wishes this hymn will always want to keep it. The Rodeheaver Co., 440 S. Dearborn street, Chicago, have many valuable books for sale. "Awakening Songs" has this hymn in it. The book in manilla is 30c; cloth, 45c post paid. If sheet music is wanted this song can be gotten with piano accompaniment for 10c. Stamps are accepted in amounts under \$1.00, 5c and 10c stamps preferred. These are prices taken from a catalogue from the company which is less than a year old. The catalogue is free for the asking. I am much interested in the M. B. F. and especially the good common sense talks by our editor. Yours in the cause of humanity.—H. M. S.

## A MILLION

A million minutes are almost two years.

A million hours ago England and France were engaged in war against each other, and a million days ago Rome had not yet been built. King Uzziah was reigning in Jerusalem, and two hundred years were to pass before the Jews went into captivity, in Babylon.

A million days are 2,739 years. A million weeks ago—? Nothing is known that far back except what can be deduced from the prehistoric bones, implements and weapons which are frequently brought to light.



## The Children's Hour

**DEAR CHILDREN:**—As you all know next Sunday is the 12th of February and marks the birthday of Abraham Lincoln, America's great statesman and 16th president. He was a follower of the truth and was known to all as "Honest Abe." He was chosen by artists as the character for Uncle Sam in their cartoons. Did you ever hear how he won his first dollar? This is how he told the story to one of his friends.

"Well, I was about eighteen years of age. I belonged, you know, to what they call down South the 'scrubs'—people who own neither land nor slaves. Having some produce to sell, I built a little flatboat to take it down the river to New Orleans.

"A steamer came along, and two men who wanted to board her asked me if I would take them and their trunks out to her. I gladly assented, sculled them out to the boat, and put their baggage aboard. Then each of them took a half-dollar from his pocket and threw it to me. I could scarcely believe my eyes as I picked up the money.

"You may think it a very little thing, but it was a most important incident in my life. I could scarcely believe that I, a poor boy, had earned a whole dollar by a few minutes' work. The world seemed wider and fairer. I was more hopeful and confident being from that time."

Next Tuesday is St. Valentine's Day. Are you going to have a valentine box like the one I told you about last year? You will find it great fun if you do.—UNCLE NED.

Dear Uncle Ned—I am going to tell you how I saved my money. I got my bank-book for Christmas with five dollars. Then I saved my money till I had enough to put in the bank. On the fourth of July papa could not get any fireworks so he gave me a dollar to put in the bank. Then I got a dollar for passing my grade. I have \$15 in the bank now and \$10 more to put in. I have two rabbits and two chickens for pets. I am 10 years old and in the fourth grade at school. My birthday is Dec. 16th. Have I a twin?—Ivah Thyon, R. 2, Climax, Mich.

Dear Uncle Ned—I am very interested in the Children's Hour so I thought I would write to it. I am a farm girl 12 years old. My birthday is the 7th of July. I am in the eighth grade at school. I wonder if I have a twin? I, too, think it is a very good idea to have money in the bank, Uncle Ned. My mother promised me a ten-dollar bill if I passed my grade this year and at first I thought I would get a camera but now I think maybe I will put it in the bank if I can get a camera some other way.—Martha Marrión, Carson City, R. 2, Mich.

Dear Uncle Ned and Cousins—What are you doing these cold days? Uncle Ned, I have a bank account of ten dollars. Who started it I don't know unless it was my mother. I was two or three years old. I am going to tell you something I remember. One day papa borrowed a dollar of me but gave it back. When mama went to town to have her teeth fixed she borrowed my money. Before she started I was sitting on papa's lap and he gave me a dollar bill. My angel mother is dead now and we three children and my father are living with my grandma. After mama was dead about two years the house where we lived burned. It was a rented house but the man that owned it was the best man I knew. Boys and girls why not write more about your lives? I have stopped reading your letters because they are not interesting. Uncle Ned's are though.—Marion Weekes, R. 5, Lowell, Mich.

Dear Uncle Ned—We live on a 140-acre farm in Shiawassee county. I have one sister and twin brothers. I am eight years old and I attend school regular. I am in the third grade. There are forty-five pupils in my room. Our school is a consolidated school and I ride in the school bus every day. We have a nice shepherd dog. He will romp and play with us and bring the cows and horses from the field. We also have four cats. One is as old as I am. He catches lots of rats and used to bring them to the house to us before he would eat them. Would you like a picture of me and my kitty? His name is Jerry. When I was four years old I had a donkey to play with. I have to save my money. I have \$20 in the bank and have two war savings stamps. Sometimes mama gives me a nickel to help her and sometimes my bus driver gives me money to walk home from the corner. I had a pet lamb and some little puppies that I sold to start my bank account. My papa takes the M. B. F.—Marion Pratt, Byron, Mich.

Dear Uncle Ned—My father takes the M. B. F. and likes it fine. Every time we get the M. B. F. I sit down and read the Children's Hour. I am a girl 12 years old and am in the sixth grade. I had the scarlet fever about 2 months ago and have not started back to school yet. I

have 2 sisters and 3 brothers. My birthday is the 9th of November. I wonder if I have a twin? I have a pet dog. His name is Ruler. I have a pony and her name is Maud. I had a pet cat but he died. He was as white as snow all over. We live on a 113-acre farm and have 24 head of hogs, 3 head of cattle and one calf. We have 3 head of horses and we are going to get an automobile soon. We have 100 chickens. I was born in Michigan and I have a brother 13 years old that was born there also. I was two years old when we moved to Elizabeth, Ind. I wish that I could go back where I was born. I wish some of the cousins would write to me. I will answer all the letters I receive.—Edna McCauley, Elizabeth, R. 3, Ind.

Dear Uncle Ned—I am a farm boy 16 years old. I am five feet four inches tall, and in the eighth grade at school. I live on an 80-acre farm. We have 15 animals. For pets I have 25 rabbits. I live one mile and a half from school. My birthday comes on the eighth of September. Good bye to Uncle Ned and cousins.—Tom Stimac, Box 101, Engadine, Mich.

Dear Uncle Ned—I would like to join your merry circle. I am a farm girl 12 years old. My birthday is March 27th. Have I a twin? I have four sisters and three brothers. One of my brothers has just had appendicitis. He will be three years old in May. He is very fat. I have been reading "Nomads of the North"

and like it fine. I had an examination today which was very easy. If there is anybody whose birthday is the same day as mine I wish they would write to me. I wrote to Gladys Miller last summer but she did not keep her word and answer my letter.—Grace Goddard, Mikado, Mich. Box 34.

Dear Uncle Ned—I am a girl 14 years old. I have brown hair and eyes, am dark complexioned and five feet tall. I am in the seventh grade at school. I have four sisters and two brothers. I wonder if I have a twin? My birthday is January 4th. I would enjoy getting letters from some of the boys and girls. Your friend—Larene Shoffer, Dansville, R. 3, Box 75, Mich.

Dear Uncle Ned—I am a girl eight years old and I will be nine on the 12th of February. Have I a twin? I am in the fifth grade at school. I have a sister 14 years old. She and I have lots of fun coasting and skating in the winter. For pets I have two little kittens and an old cat. I have one and one half miles to go to school. I go every day.—Bertha E. Oberg, R. 3, Le Roy, Mich.

Dear Uncle Ned—I am a boy 11 years of age. My birthday is on the 17th of November. I have one half mile to go to school. I am in the fifth grade. My father has always taken the M. B. F. and it is the best farm paper we take. We live on a farm of 80 acres. We have two horses, five cows six head of young cattle and for pets we have two collie dogs and some tame rabbits. I have two brothers, one 16 years old and the other 6 years old.—Ivan Leroy Stark, R. 1, Fountain, Mich.

Dear Uncle Ned—I am a boy 12 years old, and am in the sixth grade. We have 80 acres of land. We have 3 horses, 9

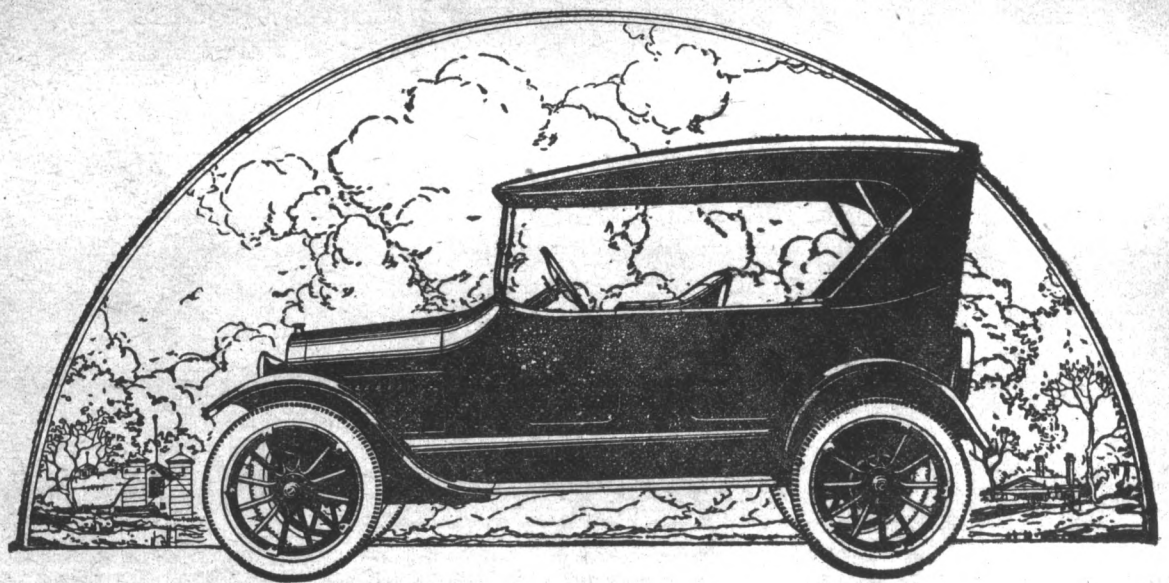
head of cattle, 6 pigs, 1 cow, 80 hens and 2 roosters. We have a big barn. I have 5 brothers and 4 sisters.—Mervin Grove, Gladwin, R. 4, Mich.

Dear Uncle Ned—I am a farm girl 14 years old and am in the eighth grade at school. My birthday was December the eighth. I wonder if I have a twin? My sister wrote a letter to the M. B. F. last week. I enjoy reading the Children's Hour and I wish that the Doo Dads would come back again. My mother has been dead eight years. I have one sister and one brother. I wish some one would write to me. My sister and my brother have both graduated from school. My brother and my sister and I each have a camera. We had a surprise party on my sister on January 25th. We have an Edison Amberola.—Stella Adolph, Yale, R. 5, Mich.

Dear Uncle Ned—I am a little boy eight years old and in the fourth grade. I live on a farm of 40 acres. For pets I have seven rabbits. I have two brothers and one sister. We have six cows and one calf, two horses and seven pigs.—L. E. Lounsbury, Cass City, Mich.

### OTHER LETTERS RECEIVED

Henry Stoutenberg, Sandusky; Irma Barber, Greenville; Doris Hayes, Traverse City; Winifred Wilkinson, Oak Grove; Osie Utter, Jessamine Shaffer, Dansville; Ella Wright, Muir; John Derasia, Spruce; Norma Jones, Manton; Lillian Lyster, Bangor; Mildred Anderson, Elwell; Lucille Knechtel, Figeon; Max Grove, Gladwin; Bernice Mae Frick, Leonard; Leona Green, Prescott; Roberta Bond, Dewitt; Gertrude E. Kirtland, Sidnaw; Nell Gurzick, Tracy Kuntzer, New Haven; Helen Duggan, Bad Axe; Emma Eligne, Bay City; Lela Ables, Montgomery; Gladys Leola Durfee, Alger, Mich.



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cold easily and develop troublesome coughs that often hang on.

**Scott's Emulsion**

is a food replete with tonic-qualities that improves the appetite and builds up resistance to overcome the cause of the weakness.

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Perfect hearing is now being restored in every condition of deafness or defective hearing from causes such as Catarrh of the Ears, Thickened Eardrums, Boiling and Rinsing Ears, Perforated, Wholly or Partially Destroyed Ears, Discharge from Ears, etc.

**Wilson Common-Sense Ear Drums**

"Little Wireless Phones for the Ears" require no medicine but effectively replace what is lacking or defective in the natural ear drums. They are simple devices, which the wearer easily fits into the ears where they are invisible. Soft, safe and comfortable. Write today for our 168 page FREE book on DEAFNESS, giving you full particulars and testimonials. **WILSON EAR DRUM CO., Incorporated** 416 Inter-Southern Bldg., LOUISVILLE, KY.

## ORGANIZED FARMERS MEET IN HARMONY AT M. A. C.

(Continued from page 5)

not have met in a room together without breaking the furniture over each other's heads." He felt that a new era had dawned for agriculture when farm organizations could work together as they are now trying to do.

### The Farmer Movement in Canada

Dr. G. C. Creelman, former president of the Ontario Agricultural College, defended the Canadian farmers participation in politics and showed how it was necessary for them to unite on political candidates and issues in order to gain relief from excessive taxation, tariffs, profiteering, etc. "Perhaps we are a little less patient than you folks over here," said Dr. Creelman, "and we took things in our own hands a little quicker. We got tired of hearing political speakers tell us that we were the backbone of the nation and then forgetting our interests after they had been elected. So one day some of the provinces woke up to find the farmers in control of the government. After three years' trial we are convinced that a farmer administration is just as efficient and economical as one controlled by lawyers and professional politicians."

### Halladay Speaks

H. H. Halladay, state commissioner of agriculture, gave an interesting account of the duties of the several bureaus consolidated in the State Department of Agriculture. He explained how many economies had been effected by the consolidation and how much more efficient the work of each member bureau had become. He urged that the drive against tuberculosis in cattle be pushed without limitation, both as a matter of public health and of ultimate financial benefit to the farmer. He said that tuberculosis in cows reduces the butter content of her milk and that on farms where tubercular cattle had been destroyed and healthy cows had taken their place, there was a noticeable increase in the average butter fat content of the herd.

Mr. Halladay reminded the farmers that his department was created to serve the farmers and urged them to use it.

Dr. Marion LeRoy Burton, president of the University, told the farmers that the first demand in a democracy is that its citizens shall be intelligent and that intelligence can only be gained by education. He claimed that any amount of money invested in education was money well spent. Greater respect for law and a fuller appreciation of the international relationships of peoples came in for discussion. Pres. Burton declared that the time had gone by to make light of the 18th amendment and that all law-abiding persons would respect that clause as much as any other belonging to the constitution.

### Nicol and Noble Speak

Other Michigan speakers included Jas. Nicol, president of the State Farm Bureau and Lee S. Noble, president of the Farmers' Clubs. A. B. Cook, master of the State Grange, was unable to take his scheduled place on the program having been delayed on his return from the Washington conference to which he was a delegate, but his place was creditably filled by Mrs. Dora Stockman, lecturer of the Grange and member of the State Board of Agriculture, who in her always charming manner reviewed the accomplishments and opportunities of the Grange. Grant Slocum, president of the Gleaners, was also unable to appear because of a conflicting engagement which took him down to Ohio.

Mr. Nicol confined his remarks to the proposed lake-to-sea route and painted for his hearers an alluring picture of agricultural prosperity in Michigan upon the completion of that route. He told of the many economies that would be effected when Michigan farm products could be loaded directly upon boats bound for foreign ports, and even suggested the deepening of certain rivers of the state so that ocean going vessels could penetrate to in-state cities.

Mr. Noble discussed general farm

problems and urged closer co-operation among farm organizations to solve them.

### David Friday Sends Message

M. A. C. President-Elect David Friday who had given positive assurance that he would be present became snow-bound and had to cancel his engagement at the last moment. He sent the following message:

"Severe snow storm Washington and Atlantic Coast delayed my trip to St. Petersburg after Washington Conference. Impossible to reach Lansing before Saturday. Regret exceedingly inability attend Farmers' Week but as every man is a man of one speech, mine will keep until I come to you permanently in April. "Agriculture has passed worst of this depression. Next season's prices of farm products and things the farmer buys will be more nearly balanced. During '21 income farm in United States was only \$300 for labor and investments combined while average wage of one railway wage was \$1,690 without instruments. For '22 railway wage will still be over \$1,500 if no further reduction occurs. This must not continue. Fortunately Michigan has the industrial consuming population. With motor trucks and good roads we will work out one phase of our problem. Co-operation between consuming centers and agricultural producers is one of the first problems I expect to attack at the Michigan Agricultural College. Fortunately, too, Michigan has been largely free of the wild speculation in farm lands which occurred in some states further west. If one has his feet on the ground he can never fall far."—David Friday.

### Howard Could Not Attend

J. R. Howard, president of the American Farm Bureau Federation, also failed to show up. His alibi was not so good. Mr. Howard has been mentioned as a successor to Senator Kenyon who resigned to accept a federal judgeship and the excuse offered for his non-appearance was that he was busy keeping his political fires burning. In his stead came a Mr. Pollock, from the Chicago office of the A. F. B. F., who gave a straight-from-the-shoulder talk on the accomplishments of the Farm Bureau and urged the farmers not to let temporary discouragements alienate them from their organizations.

### Governor Reviews Administration

Governor Groesbeck made one of his few public addresses since he assumed the executive chair during Farmers' Week and gave a somewhat detailed account of how the various state boards had been consolidated and were functioning. He stated that the 1921 state tax budget was really less than the 1920 when certain interest items which were not included in the 1920 budget were deducted. He denied the allegation that his administration was building up a political machine asserting that all he had done or would do was in the interests of the people. He told of the disgraceful condition that had been existing in the several state institutions and how he had been instrumental in cleaning them up. He promised a liberal policy toward the M. A. C. and stated that it was his hope and aim to make the M. A. C., which is the oldest agricultural college in the world, the greatest in the world. He promised state support for a stadium for the M. A. C., and also recommended liberal appropriations for the University. He touched upon the taxation problem very cautiously, gave no definite assurance of immediately lower taxes and avoided all mention of the proposed state income tax. In many respects his talk was interesting; in others it was disappointing.

### LUCE COUNTY AGENT MAKES MONEY FOR FARMERS

(Continued from page 8)

bushel more than seed rye was selling for here and the farmers were satisfied that it was worth fully a dollar more.

Still later other farmers who had seen the seed wanted to get some, and owing to the lateness of the season were even willing to have it shipped to them by express, notwithstanding the much higher cost. The order was again sent to the Luce county agent who answered that there was none for sale any longer. That the supply was exhausted, was unquestionably due to F. E. R. and a lot of others like him who can not see where they benefit a dollar a year.

About a year ago, Luce county farmers secured through their county agent several thousand pounds of

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**Embroidered SERGE DRESSES**

**\$3.88**

Don't miss this amazing bargain! Only a few of these stunning style, fine quality Serge Dresses to go at this sensational low price. Fashioned from extra quality Serge; always looks alike and gives excellent wear. Beautifully designed stitched wool embroidery in two harmonizing colors—will not pull out or run. 3 novelty pockets; set material sash belt; full length sleeves.

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So sure are we that you will say this is the most wonderful bargain you ever saw, we warrant it without one penny advance. Just your request brings this charming dress. But don't delay—they will go fast! Send letter into the first mail. Color: Navy blue only. Sizes: Women's sizes 32 to 46 bust; Misses' sizes 14 to 18. STATE SIZE.

**ACT NOW!**

Send no money now—pay only \$3.88 and postage on arrival. Your money back quick if you want it.

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Please send me quick Bargain Serge Dress. Will pay postman

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with cheap incubators. Remember, it is not how many you hatch that counts, but how many you raise.

Chicks that hatch a few days mean out weak and wobbly, and live but nothing to you but trouble and loss.

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produce large hatches of strong, vigorous chicks that live and grow. The Queen is accurately regulated—taking care automatically without attention of a variation in temperature of 70 degrees without danger to the eggs. It is built of genuine Redwood—very scarce in these days of imitation. Redwood does not absorb the odor from hatching chicks. Cheaper woods and strawboard or composition lining in iron or tin machines, retain the odors, to weaken and kill the chicks of later hatches.

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Address **Agricultural Bureau, Dept. E, Chamber of Commerce, Joplin, Mo.**

**130 Egg Incubator and Brooder \$17.50**

Both Machines Made of California Redwood. If ordered together, Freight Paid east of the Rockies. Hot water—copper tanks—double walls—dead air space—double glass doors—shipped complete, all set up ready to use.

**150 Egg Incubator and Brooder - \$22.00**

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Made of California Redwood—lasts a lifetime. Positively the best value on the market today. Order the size you want direct from this ad. 30 days trial—money back if not pleased. If not ready to order now, don't buy until you get our 1922 catalog. (2)

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**WHEN WRITING TO ADVERTISERS**

please mention the fact that you saw it in the

**MICHIGAN BUSINESS FARMER**

It will help both of us.



dynamite at a saving of nearly \$120 on every thousand pounds. Whether F. E. R. and a lot of his neighbors for whom he pretends to speak, received any of this dynamite is immaterial, and how many more of such examples could be cited is also immaterial. For almost everywhere there are a few who would rather knock than boost and they are so deeply mired in a rut that they represent it as they would an insult, should a county agent attempt to boost them out of the rut.—W. H. L., Houghton County, Mich.

#### "MY EXPERIENCE WITH COUNTY AGENT"

IN your paper I recently saw a letter from a Luce county farmer, containing a statement that county agents weren't of much use. Considering this meant to apply directly to the county agent here, I would like to say that I am a farmer also and have found the county agent of direct benefit to me at different times and most of the farmers I know have a very high opinion of your county agent.

There are always a few knockers for everything and everybody and I presume the party that wrote the above mentioned letter is one of them.

I would like to have this letter printed so that F. E. R. may know that there are some in the county who do appreciate the county agents' work.—John Fred Miller, Luce County, Mich.

Glad to hear these good words for your county agent, but why wait until someone gives him a knock before you give him a boost. It is terribly discouraging to carry on a work which you are made to feel is not appreciated. The county agent can't please everybody and never will. He expects to meet with opposition and indifference, but it will help him a lot if you fellows who believe in him and his work tell him so once in a while.—Editor.

#### STARTING THE CALVES RIGHT

(Continued from last week)

##### Changing to Skim Milk

THE time to change the calf from whole milk to skim milk will depend largely upon the development of the calf. If the calf is strong and well developed, it may be changed to skim milk at the end of the second week. This change should be made gradually by substituting a small quantity of skim milk for whole milk in the daily ration. About a week or ten days should be taken for this change. In this way the calf will go off the whole milk gradually and will not have a distaste for the skim milk.

##### Temperature of Milk

Care should always be taken to have the milk warm and sweet; especially is this necessary when feeding the young calf. As the calf grows older it will do just as well on cooler milk if it is fed at the same temperature every day. The right temperature for the milk fed the young calf is blood heat, 100 degrees Fahrenheit. The milk should be as nearly this temperature as it is possible to get it. There is no way which the digestive system of the young calf can be upset more easily than by feeding cold milk at one meal and warm milk at another. If there is any doubt about the temperature, or if the milk has to be warmed at all, the thermometer should be used. Judging the temperature of milk by putting the finger into it is not satisfactory. Milk at 90 degrees Fahrenheit will feel warmer on a cold morning than it will on a warm morning, and the calf's digestive system is very sen-

sitive to any change. It is also important to feed the milk sweet. One feed of sour milk may upset the digestive system of the young calf for months, and one feed of such milk often causes the death of the calf. It is better to let the calf miss one or even two feeds than to feed it on sour milk.

The pails from which the milk is fed should be kept as clean as possible. They should be kept as clean as the milk utensils. If any milk is left in them it will sour, and the calf will soon show the effect. The pails should be thoroughly cleansed and sterilized often.

#### Length of Time to Feed Skim Milk

The length of time that the calf should be fed on skim milk will depend upon the amount of skim milk available for this purpose. Some feeders wean their calves at four months of age, but it is a better practice to feed skim milk until the calves are six months old. If one has an abundance of skim milk it is a profitable practice to feed heifers until they are eight months or a year old. This will insure a better growth and better development.

(To be continued)



## POULTRY

#### MATING DUCKS

Will eggs from ducks hatched in August be good for setting in June or July of the following year? If so, how old should the drake be to make a good mate for ducks of that age? How many ducks to a drake, etc? Which is the best breed of ducks? What causes chickens to make a chattering noise and they seem to shake and tremble all the time? Some that shake seem to be crop bound while others don't.—Old Subscriber, Hillsdale, Mich.

We would say that ducks as late hatched as these would possibly be rather undeveloped and too small to make good breeding individuals. However, if they are well grown and of good size, they may be used all right for hatching at any time of year. The drake should be at least a year old and well developed. We would recommend not using more than three to five females to one drake. There are several good breeds of commercial ducks, the Pekins possibly being the most popular.

In regard to the symptoms described in your chickens, it would seem that the birds had possibly received some poison. Feeding of rye which is infected with ergot will frequently cause symptoms of this kind.—C. M. Ferguson, Extension Specialist in Poultry Husbandry, M. A. C.

#### OPPORTUNE TIME TO BUY CREAM SEPARATOR

ARE you contemplating the purchase of a cream separator? Now is the time, owing to special conditions, to purchase one of the best separators made at a very favorable price.

This separator, Melotte by name, is the masterpiece of the brain of M. Jules Melotte, known as "The Edison of Europe," and experts declare it to be "one of the greatest cream separators in the world." The separator is made in Belgium, holds 264 Grand and International prizes and has won every important contest in Europe for efficiency of skimming, ease of turning, convenience of operation and durability. There are over 500,000 owners of Melotte separators in the world today and they are all satisfied; in fact, they could not be otherwise owing to the plan of sale. The separator is sold under an ironbound, 15-year guarantee that gives you absolute protection. It is placed in your home at no cost to you and you are allowed to use it for 30 days. If at the end of that time you are not satisfied with it it will be taken back and you are not out one penny. But if you are well pleased with the separator you make the small initial payment and then make small monthly payments until it is paid for. Could the company be more fair?

Any one who is considering a cream separator should learn about the Melotte at once, because, due to the favorable exchange rates between this country and European countries, low prices have been made possible. At the present time the saving in price aggregates about 25 per cent, an amount well worth considering during these trying times. Should the tariff be revised as now contemplated it would be impossible for the company to offer their separator at such a low figure.

Space here will not permit the description of its many wonderful features but if you will write to the Melotte Separator, H. B. Babson, U. S. Mgr., Dept. 9301, 2343 West 19th street, Chicago, Illinois, they will be glad to send you a copy of their catalog. Or better still, clip the coupon in the lower left hand corner of the ad on the back cover of this issue, fill out properly and mail to the company at above address.—Adv.



## 1922 Is A Good Year To Build A Dairy Barn

LUMBER and other prices are well down, carpenters and common labor want work and contractors need business badly enough to figure closely.

Costs have so lowered that you can now have a James planned barn, with Jamesway insulation, double glazed windows and silos, completely equipped with Jamesway ventilating system, stalls, stanchions, drinking cups, manure carrier, feed truck, cow pen, calf pen, bull pen, etc., for 30 cows for about \$53.00 a month—\$1.75 per cow.

Indeed, drinking cups alone may pay  $\frac{3}{4}$  the cost of the entire barn. Tests in 28 herds proved that with milk at \$2.50 per 100 lbs. and labor at 25c an hour, Jamesway cups increased profits from each cow \$14.01 during the cold weather season.

Building costs are not likely to decrease for some time. When prosperity is again in full swing, labor, lumber, cement and other materials will be in great demand.

In any event, the profits a Jamesway barn will make for you each year you use it will far offset any possible saving that can be effected by waiting.

If you take advantage of the Federal Farm Loan system, you may get money at low interest for as long as 40 years, paying off a little each year. If you are not familiar with this method of financing the building of a dairy barn, write us for full information.

### JAMES MANUFACTURING COMPANY

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Tells about new type of poultry house—warm, but gets rid of bad air and moisture.

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Wool sacks will be furnished on request.

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Large Winter Muskrats \$2.30  
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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.

Feb. 14—Durocs, J. C. Barney, Coldwater, Mich.  
Feb. 15—Durocs, Hillsdale Co. Duroc Breeders' Ass'n., Hillsdale, Mich.  
March 29—Holsteins, J. F. Glad, Vassar, Mich.  
May 10—Shorthorns, Central Michigan Shorthorn Breeders Association, Greenville, Michigan.

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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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Sired by a Pontiac Aggie Korndyke-Hengerfeld DeKol bull 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.

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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 83.34 lbs. butter. Herd under state and federal supervision.  
Oscar Wallin, Wiscogin Farm, Unionville, Mich.

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

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**BULL CALF, BORN APRIL 20, 1921, WELL** grown, well marked, very straight, and sure to please you. Sire Segis Flint Hengerfeld. Led whose two nearest tested dams average \$183. 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. O. KETZLER, Flint, Michigan.

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Sired by Segis Korndyke De Nijlander, a \$2 7/8 son of a twice Michigan ribbon winner, her dam, 29 1-2 lbs. Dams are daughters of King Segis Pontiac, a \$7 lb. son of King Segis. Records 16 lbs. to 30 lbs. Priced at half value, \$100 up. Federally tested June 10. Write for list.

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**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.

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## 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 Ova. 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 Hengerfeld De Kol Butter Boy, one of the great bulls.

JAMES HOPSON JR., Owosso, Mich., R 2.

**WOLVERINE STOCK FARM REPORTS GOOD** sales from their herd. We are well pleased with the calves from our Junior Herd Sire "King Pontiac Lande 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. Sprague, R 2, Battle Creek, Mich.

## Fairlawn Herd—Holsteins

Herd Sire, Emblaggard Lillith Champion 108073. His sire's dam Colantha 4th's Johanna, world's first \$5 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 Piebe De Kol No. 93710, over 1,150 lbs. of butter from 29,599.4 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 sired an A. R. O. granddaughter of Pontiac Korndyke.

Sired by our SENIOR SHOW BULL Model King Segis Glista 32.37 lbs.

**GRAND RIVER STOCK FARMS**  
COREY J. SPENCER, Owner  
111 E. Main Street, Jackson, Mich.  
Herd under State and Federal Supervision.

## SPLENDID ONA BULL CALF

Born Sept. 27, 1921. Sire, Flint Maplecrest Ona Pontiac; Dam, Imlay Beets De Kol Elzevera who is milking nearly 60 lbs per day on regular feed.

He is nearly white but built right. First check for \$60.00 gets him. Herd under State test and free from T. B.

SCHAFFER BROS., Leonard, Mich., R 1

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

**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, Mariette, Mich.

**DON'T BUY HOLSTEIN OR GUERNSEY CALVES ANYWHERE UNTIL YOU WRITE** EDGEWOOD FARMS, WHITEWATER, WIS.

**REGISTERED HOLSTEINS** Our Special price on your next years bull is interesting. 24 lb. dam \$2 lb. Sire.  
J. M. WILLIAMS, No. Adams, Mich.

**HOLSTEIN BULL READY FOR SERVICE.** Fine large growthy fellow born Jan. 16, 1921 from a fine large show cow with record of 25.93 lbs. butter 7 days. Sires dam 30 lbs. Nicely marked half white and half black. Price \$200. I also have 8 others, 1 born Nov. 1st, 1921 from cow with record of 30.21 lbs. butter, 633.8 lbs. milk 1 born Mar. 10, 1921 from cow with record of 20.28 lbs. butter, 509.5 lbs. milk as a 2 year old.  
I. A. KIDNEY, P. O. Brant, Mich.  
R. R. Station, St. Charles, Mich.

**HOLSTEIN BULL BORN OCT. 13, 1921.** Bull and out of a 22 lb. daughter of a 21 lb. cow \$50 delivered your station.  
EARL PETERS, North Bradley, Mich.

**FOR SALE TWO HOLSTEIN BULL CALVES** of high breeding. Dams ranging from 18 to 32 lbs. Nicely marked, and thrifty fellows. No. 1 born March 11, 1921; No. 2 born Nov. 26, 1921. \$75.00 apiece takes them. Pedigrees will be furnished.  
W. O. SEARS, Beulah, Mich.

## SHORTHORNS

**REGISTERED SHORTHORN CATTLE, DUROCS** Jersey Hogs and Percheron Horses. Quality at the right price.  
CHASLEN FARMS, Northville, Mich.

**SHORTHORNS, COWS, HEIFERS, BULLS** 18 head, 8 mos. to 4 yrs. old. FRANK ROHRBACHER, Laingsburg, Mich.

## MILKING STRAIN SHORTHORNS

Registered stock of all ages and both sex. Herd headed by the imported bull, Kalmcoot 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.

**FOR SALE MILK STRAIN DOUBLE STANDARD** Polled Shorthorn Calves either sex, by Yorks Polled Duke No. 16384-845109 from accredited herd.  
PAUL QUACK  
Sault Ste Marie, R 2, Mich.

**FOR SALE 3 SHORTHORN BULL CALVES** and 1 L T P O spring heifer. 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.

**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

**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 gilts 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.

## 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

## ATTENTION SHORTHORN BUYERS

If you want a real herd bull, or some good heifers bred to Perfection Heir, write me Satisfaction guaranteed.

S. H. PANGBORN & SON  
8 mi. east, Bad Axe, 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.

**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. Dairy Prince.  
W. W. KNAPP, Howell, Mich.

## GUERNSEYS

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

## GUERNSEYS

**OF MAY ROSE AND GLENWOOD BREEDING.** No abortion, clean federal inspected. Their sire's dam made 19,460.20 milk, 909.05 fat. Their mother's sire's dam made 15,109.10 milk 778.80 fat. Can spare 3 cows, 2 heifers and a beautiful lot of young bulls.  
T. V. HICKS, R 1, Battle Creek, Mich.

**REGISTERED GUERNSEY BULL CALF** for \$30.00. May Rose breeding.  
PINE HILL FARM  
Howard City, Michigan.

## Read the Classified Ads

—IN—  
**M. B. F.'s Business Farmers' Exchange**

## VETERINARY DEPARTMENT

DR. W. AUSTIN EWALT, EDITOR

## TREATMENT FOR THRUSH

Will you please publish a cure for thrush in a horses hoof? Also a good remedy for killing lice on cattle.—J. N. East Jordan, Mich.

Pure calomel is the best drug known for thrush; first wash the affected parts thoroughly using castile soap and water or any good antiseptic; then apply the calomel by dusting the dry powder on and working well down in the cracks, if carefully done once a day will be sufficient and a cure will be accomplished in a short time. To rid your cattle from lice you should clip the cattle and apply Kreso Dip according to directions on the can. Also stables should be white-washed.

## SPAYING COLLIE PUPPY

My cow does not come in heat. Have a cow that has been in most four months and has not showed any sign of being in heat. What can I do to bring her in heat? Also how young should a collie puppy be spayed and should they be trained and raise any puppies before spaying?—L. Y., St. Johns, Mich.

Have your cow examined by a qualified veterinarian to find out the cause. The best age to operate on Collie puppies is eight weeks if normally healthy; however, they can be operated on at any age. I operated on five day before yesterday and am shipping them entirely healed from the incision today. If you should wish to raise a litter or two of puppies you could do so and still have the bitch spayed any time later. The operation should have no effect upon the raising or training of the bitch.

## GIVES BITTER MILK

I have a cow that gives bitter milk. Has given milk since last March, freshens again next March. The milk has been more or less bitter since December 1st. It is far more noticeable after standing 24 hours. At present she gives eight quarts daily. It would be impossible to use the cream for butter. She is fed pumpkins three times daily, second growth clover hay, ground feed, stalks once and 2 quarts of ground feed, twice daily. The ground feed consists of 100 pounds corn and oats and 50 pounds of bran.—G. W., Allegan, Mich.

Something wrong with the feed. Clean house by giving magnesium sulphate, two pounds, powdered ginger and one ounce gentian, two drams powdered nux vomica and one dram powdered capsicum. Mix all together and dissolve the entire contents in two quarts of hot water, let cool and give slowly at one dose. Discontinue the pumpkins and give one tablespoonful baking soda twice daily for a week.

## LUNG WORMS

Could you tell me what to do for sheep having lung worms? —A Subscriber. Hardy, Mich.

Try oil, turpentine, 4 drams daily for one week in gruel 8 ounces, or linseed oil, 4 ounces.

## MACK'S NOTES

February 15, on the fair grounds at Hillsdale, an auction sale of pure-bred Duroc hogs will be held. There will be 60 animals in the offering, nearly all bred sows, that have been bred and raised by the members of the Hillsdale County Duroc Breeders Association. These hogs are from some of the best boars in the state and their individual excellence is such as to recommend them to the most discriminating admirer of true Duroc type.

Since the complete clean-up of the tubercular cattle in the county, Old Hillsdale has taken on a new lease of life and will, from this time on, be heard of in the cattle business as never before in its history. Many richly bred Holstein sires have been brought into the county of late; the last one was bought by J. I. Post and W. W. Pool, of Hillsdale, of J. M. Rock & Sons, of Plymouth, Wisconsin. This splendid animal is registered under the name of Rockvale Pontiac Alcartra 337226; the dam of this bull and the dam of his sire both have attractive yearly records and many daughters in the A. R. O. list.

Reports from the auction horse markets of the country show the development of an active demand for farm purposes much earlier than has been the rule in other years. Dealers in and breeders of pure-bred draft horses also report an active inquiry for teams of well-broken young mares, safe in foal. At the present time the outlook seems to foreshadow one of the most active seasons in the draft horse trade, that this country has ever known.



## CROP REPORTS

**MONTICALLY**—The farmers are not doing much except chores and getting up wood. A few have potatoes that they are selling. The weather is pleasant today; have had some snow, a little rain and roads icy.—Geo. B. Wilson, Feb. 3.

**SHIAWASSEE**—Wood cutting, ice cutting and chores are all the farmers are doing. Blustery weather; no snow. Stock looks well kept. A very few auctions. Very little grain moving to market; only to pay taxes as required. Early sown wheat and rye looks good altho bare of snow. A large delegation of farmers gathered at the M. A. C.—V. G. W., Feb. 3.

**MIDLAND**—It has been very pleasant until last Wednesday evening. It has turned colder again and has been snowing. We hope that the cold spell does not last.—F. L. Haeffka, Feb. 3.

**MECOSTA**—Fields and roads covered with ice. Farmers cutting buzz wood. A few auction sales this week and more coming. The price of potatoes about stationary. The price of butter fat coming down. Mill feeds, such as cottonseed and linseed very high.—Philip A. Wernette, Feb. 3.

**LIVINGSTON (E.)**—Backbone of winter broken and ground covered with thin layer of snow to protect the winter grain from the hard winds we have been having the past month. Some stock going to market and a few potatoes going at a \$1 a bushel. Some ice being put up. Farmers busy cutting wood and doing chores. No auctions on the swing yet. Lots of farms for sale and the general talk of farmers is no large acreage of crops this spring.—J. W. C., Feb. 3.

**GENESEE**—Some very fine weather last week and some rain. Wheat is being injured on account of no snow and thawing and freezing. Taxes are being paid and some have to borrow money for it. Feed getting scarce with some and has to be bought. Hard snow today and strong wind.—A. R. Graham, Feb. 3.

**HILLSALE**—Warm weather the forepart of this week and quite cold the middle part, gradually getting warmer the last two days. The farm home of George Bates burned to the ground Jan. 28th; nothing was saved except a little furniture; partly covered by insurance. The farm is northeast of Hillsdale. The farm home of C. P. Burr also burned the 21st of January.—Reno J. Fast, Feb. 4.

**ST. JOSEPH**—Had few days of fairly nice weather, then Wednesday it rained and turned colder. Had hard winds, and everything; frozen roads all ice. Ice houses are nearly filled. Quite a few sales; some things sell good, while others only getting about 1-2 they should. Several went from Sturgis to attend the Farm Bureau meeting at M. A. C.—Mrs. H. C. Holtz, Feb. 3.

**EATON**—Cold with west wind and very little snow. Roads and fields icy. Some stock being shipped, principally hogs and veal calves. No grain of any amount in farmers' hands. Some inquiry for hay at \$3 to \$10.00 per ton. Some going to R. R. that was baled last fall. Plenty of cows offered for sale, but few changing hands.—C. F. L., Feb. 3.

**BERRIEN (W)**—Weather continues cold. Have been having our record cold spell; the coldest noted was 12 degrees below zero. Scarcely any snow at present, the heavy winds having cleared the fields. Bad weather for wheat. The ice houses are being filled, the work nearing completion, as farmers have been harvesting the ice crop for the last two weeks; good quality and an increased quantity being put up. A few farmers are trimming grapes but most of them are waiting for better weather.—O. C. Y., Feb. 3.

**ALPENA**—We are having excellent weather up here but doesn't seem so in other places. Feb 1st it rained. The bear saw his shadow alright. Taxes aren't being paid in so fast this year. The county is hauling gravel onto the Wilson road in double loads from its pit on the farm of Levi Smith; \$5 for teams and \$2.50 a day for shoveler. The snow has settled quite a lot in the last week. Not much sickness around. No auction sales. No exchanging of farms. Not much work in woods.—O. H. R., Feb. 3.

**WEXFORD**—We have had some nice weather for a few days, but it commenced to rain the 1st and turned to a blizzard in the night and still blowing.—S. H. S., Feb. 3.

**INGHAM**—Quite mild for a few days. Been steady cold for some time with only a very little snow. Only the usual farm work, chores, getting wood, filling ice houses, etc. Some stock comes to town each Tuesday when the co-operatives ship. Prices do not change much, have been very steady for some time. Some building, some preparing to build in spring. Some inquiry for farms to work on shares. Not much property changing hands and what does is in exchange.—C. I. M., Feb. 4.

Your paper is certainly a fine one, couldn't get along without one. Thank you for waiting so long for renewal. Keep it coming. Wishing you good luck.—Grant Ferguson, Charlevoix County, Mich.

**127 BUSHELS OF CORN TO THE ACRE**  
How would you like to grow 127 bushels of corn to the acre? Pretty good yield, is it not? Mr. J. A. Warren, of Gresham Farms produced that much and won the Gold Medal at Purdue University. A picture of one of the ears exhibited can be found on page 7 of this issue. Mr. Warren has written a book on producing profitable crops and the Federal Chemical Co., Louisville, Ky., will send readers of the Business Farmer a copy of it, free of charge, if you write them asking for Mr. Warren's book on "Profitable Crops" at the same time mentioning the Michigan Business Farmer. Some mighty interesting reading in the book.—Adv.

## JERSEYS

### 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. 451568, 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, 829.09 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.

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

## HEREFORDS

### BEEF PRODUCERS!

Michigan Produces the World's Best Beef at the Lowest Cost. Raise for better feeding. Cattle than you can buy. Grow Baby Beef when calves cost least in their shrink, bruises and loss.

### SOTHAM'S EARLIRPE BEEF CONTRACT

Solves your problem—insures your success. A fair intelligent, satisfying system evolved from 37 years conscientious service to American cattle industry by three generations of Sotham's. GET THE FACTS. Write now or wire. Address T. F. B. SOTHAM & SON (Cattle Business Established 1835) Phone 250. SAINT CLAIR, MICHIGAN

## ANGUS



ABER-  
DEEN  
ANGUS

BRED  
IN THE  
PURPLE

### ACHIEVEMENT

The reward of pure breeding; the accomplishment of quality. Success has again contributed more laurels to the already remarkable record of

### EDGAR OF DALMENY THE SIRE SUPREME

At the International Live Stock Exposition, where gathers each year the elite of North American Cattle to compete for the coveted awards, five more honors have been bestowed upon the "get" of Edgar of Dalmeny. Your too may share these honors. A bull by this world famous sire will prove a most valuable asset to your herd. Write us today.

### WILDWOOD FARMS ORION, MICHIGAN.

W. E. Scripps, Prop. Sidney Smith, Mgr.

## FOR SALE

### ABERDEEN ANGUS CATTLE

Two good show bulls, 1 and 2 years old sired by Lapceur Black Bird. Also two cows, one with calf at foot and rebred, and some heifers. MARSHALL KELLY, Charlevoix, Mich.

**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.

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

## AYRSHIRES

**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 Cozy Ellis 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 FIVE REGISTERED BROWN** Swiss cows and one yearling bull, priced right. T. H. LOVE Howell, Mich., R. F. D. 3

## SWINE

### POLAND CHINA

### 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.

### FOR SALE, LARGE TYPE

### POLAND CHINA

boar pigs. Sired by F's Clansman 301211, Michigan's 1920 Gr. Champion boar, and by Smooth Buster. 305823, 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.

**LEONARD'S BIG TYPE P. O. BOAR PIGS** at weaning time. From Mich. Champion hard \$25 with pedigree. Satisfaction guaranteed. Call or write R. 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 Chan. F. T. HART, St. Louis, Mich.

### BIG TYPE POLAND CHINAS

Spring pigs of both sex for sale at reasonable prices. Sired by Orange Clansman 2nd, litter brother to Michigan 1920 Gr. Champion. Also fall pigs. Write for prices. Immune by double treatment. MOSE BROS., St. Charles, 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 President Gladwin, Mich. O. E. ATWATER Secretary

**BRED GILTS** now ready to ship, bred to boars of Bob Clansman, Defender and Joe breeding at farmers prices. H. O. Swartz, Schoolcraft, Mich.

### L T P C BRED GILTS

Bred to my new boar Liberator Pride. Priced with the time. Nuff sed. M. M. PATRICK, Grand Lodge, Mich.

### BIG TYPE POLAND CHINAS

Bred gilts for sale to farrow in April; also fall pigs either sex, one great litter by Orange Clansman 2nd. Write for prices. HIMM BROS., Chesaning, Mich.

### BIG TYPE POLAND CHINAS

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

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

**BOARS AT HALF PRICE** BIG TYPE Poland Chinas bred in the purple, sired by Mich. Buster, 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. T. POLAND CHINAS, SPRING BOARS**, gilts and weanling pigs. Write HAROLD LEONARD, Alma, Mich.

### POLAND CHINA BRED GILTS

Bred to Hillcrest Liberator by Liberator Leader the 1920 Grand Champion and to Big Prospect by Liberator Buster the 1921 Grand Champion. They will start you right in the breeding industry. Exceptional bargains. Write for prices. HILLCREST FARMS Kalamazoo, Mich.

### LARGE TYPE POLAND CHINAS

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

## HAMPSHIRE

### An Opportunity To Buy Hampshires 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 Lethrop, Mich.

**HAMPSHIRE PLACE YOUR ORDER NOW** for bred gilts and fall pigs of the leading blood lines. 6th year. JOHN W. SHYDER, R-4, St. Johns, Mich.

## DUROCS

**FOR SALE EXTRA FINE SEPT AND OCT** pigs, either sex, priced right. HAWLEY POOR & SONS, Gladwin, Mich., R 1.

**1 FINE DUROC SPRING BOAR** ready for service. Sired by Big bone Giant Senation, Brookwater Dam, Registered \$25.00 gets him. SCHAFER BROS., Leonard, Mich. R 1.

## LOOK

Fall Boars are all sold. I am booking orders for Spring Delivery. Orion Breed. V. LIDGARD, Hesperia, Michigan.

For Sale, Reg. Duroc Bred Sows and Gilts. Also some good Fall pigs. All double immune. at Farmers' prices. 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 SELLING A GREAT OFFERING OF DUROC BRED SOWS AND GILTS** March 4th, mostly mated to Orion Giant Col., a son of Ohio Grand Champion. Get on mailing list for catalog. W. C. TAYLOR, Milan, Mich.

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

**PURE-BRED DUROC JERSEY HOGS** We usually have good boars and sows of all ages for sale. Reasonable prices. LARRO RESEARCH FARM, Box 4 North End Detroit, Michigan.

**DUROC SOWS AND BRED GILTS**, \$35 and \$50. Fall pigs \$12.50 and \$17.50. Unrelated. Send for circular and price list. Michigan Farm, Pavilion, Kalamazoo County.

**Duroc Jersey Bred Stock** all sold. Orders taken for weanling 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 \$35** BLANK & POTTER Pottersville, Mich.

**FOR SALE GILTS BRED TO FANNIES'** Prices right. Joe Orion, for March farrow. H. E. LIVERMORE & SON, Romeo, Mich.

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

**Durocs**. Hill Crest 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 Walt's King 29498 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: ONE DUROC BOAR FROM** Brookwater breeding stock. Choice spring pigs. JOHN CROWENWETT, Carleton, Mich.

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

## DUROC BRED SOW SALE

By the Hillsdale County Duroc Breeders Association

Wednesday, Feb. 15, 1922, 1:00 p. m.

At the Hillsdale Fair Grounds

The greatest chance of the season for Michigan breeders to obtain the best blood and individuals.

## 50 HEAD

Selected from the best herds. Large type combined with quality. We won first and second in Boys' and Girls' Pig Club at Michigan State Fair, 1921. Many show prospects will be found at this sale. Our blood lines are very strong Orion Cherry King, Joe Orion II, and Colonel breeding. Write for catalogs. Send mail bids to auctioneers in care of H. B. Kelly, Secy., Hillsdale, Mich., or to H. H. Mack, fieldman for M. B. F., by whom they will receive careful attention.

ANDY ADAMS, J. A. FISHER, J. Q. POST, Auctioneers



## O. I. O.

Registered O. I. O. bred gifts for sale. Weight around 250 pounds at \$40.00. JOSEPH R. VAN ETEN, Clifton, Mich.

O. I. O. & 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. CLARE V. DORMAN, Snover, Mich.

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

O. I. O. 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, Dorr, Mich., R. 3.

## BERKSHIRES

## BERKSHIRES

Special prices for Registered Berkshire Breeding Stock:

10 Mature Bred Sows	\$75.00
10 Fall Yearlings Bred	\$50.00
10 Spring Glits Bred	\$30.00

Best type with size and quality. Satisfaction absolutely guaranteed. Write for information.

## C. C. COREY

2427-30 First National Bank Building  
Detroit, Michigan

## SHEEP

\$125 BUYS 8 REG. SHROPSHIRE EWE lambs that have both quality and breeding. Just the thing to start a flock with. CARL TOPLIFF, Eaton Rapids, Mich.

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

## 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.

## 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!

## HORSES

ESTABLISHED 1879

## BELLS' PERCHERON &amp; BELGIANS

The most complete selection in America of these popular breeds. International and state fair winners.

## STALLIONS AND MARES

Write today.

BELL BROS., Wooster, O.

REGISTERED BELGIAN STALLION weighing 1800 lbs. Sound, 6 years old. Sure Foal getter. D. F. HOPKINS, Milford, Mich., R. F. D. 5

## OWOSSO SUGAR CO.'S PRAIRIE FARM

More of the better kind of Draft Horses used on the farm would lower the cost of production. Heavy Draft Horses on short hauls are economy and will lower the high cost of transportation.

Buy Heavy Draft Mares and raise your own power on the Farm. We have fifty mares in foal to select from. They possess the best blood that Belgium has ever produced.

Belgian Draft Horses are getting more popular. Their qualities as workers cannot be excelled by any other breed.

Before buying see the sires and dams and also see the largest breeding establishment of Belgian Draft Horses in the world. Located at

ALICIA, Saginaw County, MICHIGAN

## The Experience Pool

Bring your everyday problems in and get the experience of other farmers. Questions addressed to this department are published here and answered by you, our readers, who are graduates of the School of Hard Knocks and who have their diplomas from the College of Experience. If you don't want our editor's advice or an expert's advice, but just plain, everyday business farmers' advice, send in your question here. We will publish one each week. If you can answer the other fellow's question, please do so, he may answer one of yours some day! Address Experience Pool, care The Business Farmer, Mt. Clemens, Mich.

## HOW WE GOT RID OF RATS

We have used several effective methods to get rid of rats which I think will be of interest to readers. One of them is a mixture of two-thirds corn-meal and one-third dry cement. Be sure to keep it away from stock and chickens for it will play hob with anything that eats it. They will never want another meal. Another way is to fill a washtub about two-thirds full of water and sprinkle on enough bran to just cover the surface. Then make a run-way to the tub by leaning one end of a board against it. The rats will run up the board and jump into the tub, and it will be their last bath.—W. P., New Baltimore, Mich.

## NOMADS OF THE NORTH.

(Continued from page 11)

over the line he found at least two out of every three traps sprung by them, and therefore made useless for the catching of fur. But where there were many rabbits there were also fishers and lynx, and in spite of the rage which the plague of rabbits sent him into, Le Beau continued to set his traps there. And now, in addition to the rabbits, he had the wild dog to contend with.

His heart was fired by a vengeful anticipation as he hurried on through the glow of the early sun, with The Killer at his heels, led by a babiche thong. Miki was nosing about the first trap-house as Netah and Le Beau entered the edge of the swamp, three miles to the east. (Continued next week)

I want to renew my subscription for another year. My neighbors as well as myself find so many good, as well as original ideas in the paper, practical ones too.—Frank M. Ward, N. Girard, Pa.

Please send me your paper another year. Just can't get along without it.—S. G. Matthews, Oceana County, Mich.

## KEEPING BOOKS

It is the farmer that keeps books that knows just how much money he lost last year and in what branches of farming he lost it. Are you in this class? You can get a farmers' record and account book so arranged that you can tell how much it cost you to produce the many products of the farm, what you sold them for and the profit or loss on the deals. In addition the book contains valuable information on tractor and auto, breeding tables, seed testing, and many other subjects. A copy of this book will cost you nothing and will be worth many dollars to you. The Papec Machine Co., Shortsville, 187 Main St., N. Y., are giving these valuable books to farmers. Refer to their advertisement on page 8.—Adv.

## 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, Coldwater, Mich.

## SHETLAND PONIES

We have a few good Shetland Ponies for sale; prices ranging from \$75.00 to \$100. Write JOHN FARMER, R. 2, Stockbridge, Mich.

## COLLIE PUPPIES

Write Dr. W. Austin Ewalt, Mt. Clemens, Mich. for thoroughbred, pedigreed Collie puppies; bred from farm trained stock that are natural heelers with plenty of grit. All Puppies guaranteed.

FOR SALE THOROUGHbred WHITE COLLIE PUPPIES. CHARLES KEPNER, Carson City, Mich.

## BUSINESS FARMERS' EXCHANGE

50¢ A WORD PER ISSUE—3 insertions for 10¢ 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 &amp; LANDS

\$1000 GETS MICHIGAN FARM, 60 ACRES with 4 horses, 5 cattle, hogs, poultry, vehicles, tools, fodder, etc. included; on main road, easy walk R. B. station, store, church, school, etc.; 30 acres rich loamy fields, pasture; fruit; good 2 story house overlooking village, practically new barn, poultry house, etc. To settle affairs only \$8100 with \$1000 cash, easy terms. See page 75 Illus. Catalog 1100 Bargains. FREE. STROUT FARM AGENCY, 814 BE Ford Bldg., Detroit, Mich.

FOR SALE, EIGHTY ACRE FARM ONE mile north of Coral, Montcalm County, all cleared, tile drained; lays level; orchard, new buildings. Clay loam. Stock and tools. Terms. THOS. PICKEN, Howard City, Mich.

30 ACRES, LEVEL, HEAVY BLACK CLAY, good buildings, tiled, gravel roads, good market. For particulars write G. HUMMEL, Merrill, Michigan.

FORTY ACRES LEVEL CLAY LOAM IN Shiawassee County. Well fenced, well tilled. Fine 8 room house, good barn and outbuildings. Immediate possession. Liberal terms. CHARLES PARMELEE, Byron, Mich.

114 ACRES FOR SALE 1/2 MILE EAST and 1/2 mile south of Gaytown. Good land, good gravel road and buildings. Near school and town. Easy terms. Write JASPER DURES, Cass City, Mich.

ELMWOOD FARM, 40 ACRES, VERY PRODUCTIVE. Stock and tools, good buildings, fine location. Close to town. Write me for particulars. JOHN RYAN, Prescott, Mich.

30 ACRE FARM IN FRUIT BELT. SMALL orchard, house, barn, silo and outbuildings in No. 1 condition. Well drained, clay loam soil, 1/2 mile from Mich. Pike. 6 miles from good market. Easy terms. Write ROBERT WITTE, R. 1, Ludington, Mich.

120 ACRES BEST OF SOIL, SOME STANDING timber, located 1 mile southwest of Otsego Lake, 1 mile from trunk line. Trout streams. Good schools, etc. Inquire H. DUDD, Johannesburg, Mich.

FOR SALE, 40 A. IMPROVED LAND, FINE location. For particulars write O. J. LAMB, Frankfort, Mich.

FOR SALE OR TRADE FOR SMALLER farm, 120 acres 2 1/2 ml. from market. Excellent buildings, soil and roads. Care BOX L, Michigan Business Farmer, Mt. Clemens, Mich.

FOR SALE 160 ACRES IN OCEANA COUNTY, Michigan, 2 1/2 miles from Hesperia. A splendid dairy farm, or will sell the two 80 acres separate as there are two sets of buildings. Good soil, good water, good buildings, 30 acres in wheat, 9 in rye, all seeded. On good gravel road, near schoolhouse. Lots of pasture and some timber. A fine orchard of all kinds of fruit. Also berries. For prices write owner. G. INNIGER, Hesperia, Mich., R. 3, Box 16.

FOR SALE: 120 ACRES, NOT A FOOT OF waste, never rented. Eleven acres young orchard bearing. Near school, good road, good bldgs. Well fenced. Reason for selling, poor health. For particulars write F. L. BECKER, 746 Maple Ave., Plymouth, Mich.

160-ACRE FOR SALE OR TRADE FOR A smaller farm. All tillable. 90 acres under cultivation. Good buildings 1/2 mile from town and railroad. Lays level, no stone. GEORGE MAT-TINSON, Turner, Mich.

160-ACRE FARM FOR SALE CHEAP, with good buildings and well fenced in fine location. Presque Isle County. FRANK GLAWE, Okequo, Mich.

68 ACRE FARM FOR SALE, MOSTLY ALL cleared. Fair frame house, new barn built last year, 32x46; 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.

## MISCELLANEOUS

## TOBACCO

TOBACCO, HIGH GRADE, HOME GROWN. Chewing 10 lbs. \$3.00; Smoking 10 lbs. \$2.50; 20 lbs. \$4.00. PRODUCERS' EXCHANGE, Mayfield, Ky.

KENTUCKY LEAF TOBACCO, 3 YEARS old, nature cured. Don't send a penny, pay for tobacco and postage on arrival. Extra fine quality chewing or smoking, 10 lbs. \$3.00; medium quality smoking, 10 lbs. \$1.25. FARMERS' UNION, D57, Hawesville, Ky.

TOBACCO: HOMESPUN MILD SMOKING, 10 lbs. 2.00; 20 lbs. 3.50; Chewing 10 lbs. 2.75. FARMERS CLUB, Mayfield, Ky.

## Going to hold an ? AUCTION SALE

Don't depend on just the "home-folks," they are not the best buyers; place your advertisement in The Business Farmer, which reaches all worth-while farmers within a hundred miles of your sale.

## Send Us Complete Description

and remember your copy must reach us one week in advance of the date of issue. Address:

Advertising Dept., The Michigan Business Farmer, Mt. Clemens

## NURSERY STOCK AND SEED

PRIZE CONTEST: TO INTRODUCE THE most beautiful and fragrant Rose in the world. Climbing American Beauty, we offer for a limited time only, special size plants at 85¢ post-paid. Each purchaser entitled to enter contest. Prizes are cut glass, silverware and solid gold rings. Contest closes March 1st, 1922. Send 35¢ in coin and receive rose and particulars. OR-CHARD LODGE NURSERY, Galesburg, Mich.

GRIMM ALFALFA \$15.00 BUSHEL; RED Clover \$10; White sweet clover \$5.00; Alfalfa \$6.00; Timothy \$2.50; Sudan \$2.00; Orchard Grass \$15.00 hundred; Blue Grass \$28.00. RELIABLE SEEDS, Salina, Kansas.

## STRAWBERRY PLANTS

STRAWBERRY PLANTS: SENATOR DUN-lop and Warfield at \$4 per thousand and Guaranteed strictly first class or money refunded. Our 16 years experience costs you nothing. You get it with every purchase you make of us. Our free catalogue illustrates and describes ten best varieties, including the three best everbearers. A valuable book for the grower. HAMPTON & SONS, R. 20, Bangor, Mich.

## FILM DEVELOPING

KODAK FILMS DEVELOPED AND SIX prints, 25¢. MODERN PHOTO WORKS, Box M. B. F., La Crosse, Wis.

KODAK FINISHING! NOT THE CHEAP way, but the neat, 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. B. F., La Crosse, Wis.

## HONEY

HONEY, DIRECT FROM THE PRODUCER, delivered by parcel post anywhere in Michigan at \$1.25 per 5 lb. pail. E. J. DELAMATER, Cheboygan, Mich.

PURE CLOVER HONEY, 10 lbs. \$2.00; 60 lbs. \$10.00; prepaid by mail or express. BLOOM-FIELD APARIES, Ed Stewart, Port Hope, Michigan.

## GENERAL

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

FOR SALE: ROUND CEDAR OR TAMARACK fence posts, direct from Mfg. to user. Dry or green stock, 3-4-5-6 inch post, 7 and 8 ft. Write for prices. E. POCH & CO., Rogers, Mich.

FOR SALE: A ONE MAN KIRSTIN Stump Puller, Drum Type, Triple Power, with Automatic Takeup. All in a No. 1 shape. Will sell cheap if taken at once. RAY LEMBRICK, R. 1, Milan, Mich.

ALL MEN, WOMEN, BOYS, GIRLS OVER 17 willing to accept Government Positions \$135. (stationary or traveling) write Mr. Ozmert, Dept. 355, St. Louis, Mo., immediately.

WE PAY \$200 MONTHLY SALARY, FURNISH rig and expenses to all who qualify introducing guaranteed poultry and stock powders. BIGLER COMPANY, X682 Springfield, Ill.

WANTED: POSITION AS HOUSEKEEPER in respectable farmer's home. Am refined, excellent housekeeper and good cook. Have two girls of school age. Address BOX T, Care of Michigan Business Farmer, Mt. Clemens, Mich.

PLAID GINGHAM DRESSES, SIZES 7 TO 14 years, assorted plaids, price \$1.75, delivered from: ARTHUR KENNETH, Box 113, Weidman, Michigan.

LEATHER FOR REPAIR WORK, HARNESS or sole 30¢ per pound. Hides tanned for farmers. COCHRAN TANNING CO., Greenville, Mich.

12x30 USED SAGINAW SILO WITH ROOF P. O. B. Car here at \$125.00. ROY S. FINCH, Fife Lake, Mich.

WANT TO BUY GOOD DAIRY GOAT giving milk or soon to freshen. M. H. BIRD, Lansing, Mich., R. F. D. 6.

CEDAR POSTS FOR SALE IN CAR LOTS. C. A. VOWELLS, Alger, Mich.

WANTED, CAR LOAD OF GOOD MIXED hay. State price loaded at your station. FRANK BEHNKE, R. 1, Benzonia, Mich.

## IS YOUR FARM FOR SALE?

Write out a plain description and figure 10¢ for each word, initial or group of figures for three insertions. There is no cheaper or better way of selling a farm in Michigan and you deal direct with the buyer. No agents or commissions. If you want to sell or trade your farm, send in your ad. today. Don't just talk about it. Our Business Farmers' Exchange gets results.

Address the Michigan Business Farmer, Adv. Dept., Mt. Clemens.



# POULTRY BREEDERS DIRECTORY

Advertisements inserted under this heading at 25 cents per line, per issue. 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 Bred 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.

**STATE FARMS ASSOCIATION**  
B 2 Kalamazoo, Michigan

### ORPINGTONS AND LEGHORNS

Two great breeds for profit. Write today for free catalogue of hatching eggs, baby chicks and breeding stock.

**CYCLE HATCHER COMPANY, 149 Philo Bldg.**  
Elmira, N. Y.

**SINGLE COMB BROWN, WHITE AND BUFF** Leghorns, R. I. Reds, White Wyandottes and Barred Rocks. Eggs, stock and chicks in season. Write for prices.

**Cedar Lawn Poultry Farm, Dansville, Mich. R1**

**FOR SALE—SILVER SPANGLED HAMBURG** Cockerels, \$2.00 each. **ROSEDALE FARM,** Port Huron, Mich., R1, J. G. Philpott.

### 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 gilts. Write today for prices on what you need.

**DIKE C. MILLER, Dryden, Mich.**

Top Quality Chicks, Spanish, Minorcas, Rocks, Reds, Wyandottes and Orpingtons.

**TYRONE POULTRY FARM, Fenton, Mich.**

**W CHINESE GEESSE, PEKIN DUCKS, R. C.** By Leghorns.

**MRS. CLAUDIA BETTS, Hillsdale, Mich.**

### PLYMOUTH ROCK

**BARRED ROCK COCKERELS**, bred from a trap-nested state contest winning foundation. Prices \$4 and \$5.

**N. AYER & SON, Silverwood, Mich.**

**BARRED ROCK COCKERELS FOR SALE.** Bred from a laying strain. Deep narrow barring. Price \$3 each.

**MRS. ERNEST BELLEN, Whittemore, Mich.**

**A FEW CHOICE PARTRIDGE ROCK COCK-** erels for sale at \$4 each.

**MRS. JAY GAMBER, Linden, Mich.**

**BARRED ROCK COCKERELS AND PULLETS** from America's best prize-winning heavy-laying strains. Winners Detroit National Show Dec. 1921. Of five first prizes. Low prices.

**TOLLES BROS., R 10, St. Johns, Mich.**

**BARRED ROCK** cockerels from the famous Norman strain, winners in the Illinois egg laying contest over all breeds. Large, finely barred fellows at farmers' prices.

**MRS. JESSIE B. DEAN, R 1, Mason, Mich.**

John's Big Beautiful Barred Rocks are hen hatched, good layers, Cocks and Cockerels \$4 to \$8 each. Sold on approval. Circulars photos.

**JOHN NORTON, Clare, Mich.**

**BARRED ROCK**, Hatching eggs from Parks 200-egg strain from stock direct from Parks best pedigreed pens. \$2 per 15, \$6 per 50, \$12 per 100. Prepaid by parcel post. No chicks for sale. R. G. Kirby, R 1, East Lansing, Mich.

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

### LEGHORNS

**SINGLE COMB BUFF LEGHORN BABY** CHICKS. Order now for spring delivery. Send for circular.

**J. W. WEBSTER, R 2, Bath, Mich.**

**SINGLE COMB BUFF LEGHORN COCKERELS** Great laying strain, \$2.50 each.

**THEO GIFFORD, Winn, 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.**

**ENGLISH WHITE LEGHORN COCKERELS**, Tom Barron strain, \$1.50 each.

**JOHN W. MORGAN, Yale, Mich.**

**GRABOWSKIE'S S. C. WHITE LEGHORNS**, Cockerels and cocks for sale.

**L. G. GRABOWSKIE, 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.

**COLOMBIAN WYANDOTTES, A FEW CHOICE** Cockerels from choice flock, \$5.00 each. Also one female foxhound, bred to American foxhound, \$35.00 if taken soon.

**HENRY BRODBERG, Jr., Reed City, Mich., R 8**

**SILVER AND WHITE WYANDOTTE COCK-** erels, bred from prize winners at Battle Creek and M. A. C. Round-up show. Good birds at \$3.00, \$4.00 and \$5.00 each.

**O. W. BROWNING, R2, Portland, Mich.**

### HEIMBACH'S White Wyandottes

won silver cup for best display at Grand Rapids Coliseum Show.

5 pullets entered: win 1, 2, 3, 5, 6, 5 hens and win 2, 5, 1 cock and win 1st 5 cockerels, win 3, 7, 3, 1 young pen winning 1st. 1 old pen winning 2nd.

Have a few utility cockerels and yearling hens for sale. Baby chicks and hatching eggs. Also from Rose Comb Rhode Island Reds of good stock. Send for catalog.

**C. W. HEIMBACH, Big Rapids, Mich.**

**EGGS FOR HATCHING**, from prize winning White Wyandottes at \$3 and \$5 per setting.

**ANTHONY WARELE, Mt. Clemens, Mich.**

### RHODE ISLAND REDS

**WHITTAKER'S RED CHICKS** Both Combs. Blood tested for white diarrhoea. Michigan's greatest color and egg strain. Catalog free. Interlakes Farm, Box 4, Lawrence, Mich.

**CHOICE, SINGLE AND ROSE COMB RHODE** Island White Cockerels for sale, \$4.00 each.

**JOHN J. GOLBERG, Munger, Mich.**

**RHODE ISLAND RED TOMPKINS STRAIN** hatching eggs and baby chicks eggs, Feb. \$12.00; Mar., April, \$10.00; May, June, July, \$8.00. Chicks twice the price of eggs. Both combs.

**WM. H. FROHM, New Baltimore, Mich., R 1**

### ORPINGTONS

**ORPINGTONS BUFF, WHITE** HATCHING EGGS IN SEASON.

**GRABOWSKIE BROS.**  
Merrill, Mich., R 4.

### ANCONAS

**SINGLE COMB ANCONA COCKERELS**. Direct descendants from pens started with the Worlds Champion Layers' sons. Beauties. Prices right.

**E. W. McEMMER, Pentwater, Mich., R 1.**

### 3000 EARLY APRIL HATCHED FULLY MATURED ANCONAS. BUCKEYE ANCONA FARM

**NEW LONDON, OHIO.** Heavy layers and show birds, none better. Reasonable prices and quality stock is our motto. Can furnish winners for any show. Ask for our late winners at Columbus, O., Louisville, Ky., Cleveland, O., Pittsburg, Pa., Hagerstown and Cumberland, Md. Cks, Hens, Cks, Pul. and Mated Pens always for sale. Eggs and Baby Chicks in season. 100,000 Incubator capacity. Write us and get the best.

### LANGSHAN

**DR. SIMPSON'S LANGSHANS OF QUALITY** Bred for type and color since 1912. Winter laying strain of both Black and White. Have some cockerels for sale. Eggs in season.

**DR. O. H. W. SIMPSON**  
Webberville, Mich.

### TURKEYS

#### GIANT BRONZE TURKEYS

Copper bronze strain. Large type, splendid birds. Toms \$15.00, hens \$10.00.

**MRS. PERRY STEBBINS, Saranac, Mich.**

**FOR SALE, MY THOROUGHBRED WHITE** Holland tom 2 1/2 years old. A fine large bird to head your flock. Price \$15.00.

**Fred Fausnaugh, R 5, Chesaning, Michigan**

**WHITE HOLLAND TURKEYS, FEW TOMS** at \$9 each. May hatched White Rock Cockerels at \$3 each. A. E. SHIER, Wolverine, Michigan.

**COLLINGS BEST: PURE BRED WHITE HOL-** land Turkeys, Hens, \$8. Toms, \$10 to \$12.

**MRS. ED. COLLING, Mayville, Mich.**

**MICHIGAN'S BEST** Giant Bronze Turkeys. Splendid pure bred birds. Great in size; fine in color.

**N. EVALYN RAMSDALL, Ionia, Mich.**

**FOR SALE—MAMMOTH BRONZE TURKEYS.** Write for prices.

**MRS. H. D. HORTON, Fillon, Mich.**

### DUCKS AND GEESSE

**DUCK EGGS MAMMOTH WHITE PEKIN** and Pure Mallards, finest stock. A limited number of orders accepted for future delivery, \$1.50 per setting.

**CEDAR BEND FARM, Okemos, Mich.**

### BABY CHICKS

**THE J. B. FARMS HATCHERY** S. C. White Leghorn Chicks. Best selected stock; large, with capacity for eggs which they DO lay. Only THE BEST grade. Write for terms.

**LORING AND MARTIN COMPANY**  
East Saugatuck, Mich.

**CHICKS WITH PEP** If you want chicks that pay you we have them. Ours have the egg-laying habit. From show winning strains and egg strains as high as 290. Leghorns, Rocks, Reds, Anconas, Wyandottes, Minorcas, Orpingtons, Safe delivery. Prepaid. Prices right. Free catalog.

**HOLGATE CHICK HATCHERY,**  
Box B, Holgate, Ohio.



### EXTRA! EXTRA! PURE BRED BABY CHICKS

From our tested and culled flocks on free range. The best that money can buy, delivered to your door prepaid and live arrival guaranteed.

Prices for March and April delivery:

	per 25	50	100	500
S. C. American White Leghorns.....	\$3.50	\$7.00	\$14.00	\$67.50
S. C. Brown Leghorns .....	3.75	7.50	15.00	72.50
S. C. Mottled Anconas .....	4.00	8.00	16.00	77.50
Tom Barron Eng. White Leghorns, .....	4.00	8.00	16.00	77.50
Extra Selected .....	4.00	8.00	16.00	77.50

Start RIGHT by placing your order today for some of these HIGH GRADE SELECTED BABY CHICKS. Order direct from this ad or send for our FREE CATALOGUE.

**SUPERIOR POULTRY FARMS** **BOX 2052, ZEELAND, MICH.**



### BABY CHICKS

**200,000 FOR 1922.** Sheppards Anconas, English type, White Leghorns and Brown Leghorns. Barred Rocks. Get them direct from Hatchery from all culled out flocks. Free and safe delivery guaranteed. Catalogue free.

**KNOLLS HATCHERY**  
Holland, Michigan, R 8.

**IF YOU ARE GOING TO BUY CHICKS THE** coming season write me; get description of pure bred S C W Leghorns, S C Brown, Anconas, Barred Rocks. Send your order in early for 1922 delivery. Our prices are reasonable. We give you a square deal.

**QUEEN HATCHERY, Zeeland, Mich.**  
D J. Van Der Koal.



### BABY CHICKS

We furnish Pure Bred Chicks of the finest quality from high egg-producing stock. Flocks built directly from laying contest winners. We have seventeen breeds. Write for our free illustrated catalogue and price list.

**J.W. OSSEGE HATCHERY, Dept. 36 Glandorf, Ohio**



### Big Value Baby Chicks

Eleven popular, money-making breeds. Easy to buy—priced low. Easy to raise—healthy, vigorous. And guaranteed! Write today for FREE catalog showing many breeds in full colors.

**OHLS POULTRY YARDS AND HATCHERY**  
BOX 28, MARION, OHIO

### WHY NOT

buy your chicks from egg-bred stock?

**ANCONAS & WHITE LEGHORNS** Come and see our stock if you can or send for full description and prices.

**QUALITY HATCHERY, Box A11, Zeeland, Mich.**



### DAY OLD CHICKS

It is now time to think about next season's chicks. You want the best available to start with at the right time, and at a reasonable price. We are here to meet those demands. We supply 'efficiency chicks'—Reds, Rocks, Wyandottes, Leghorns. Ship them prepaid by special delivery parcel post, guaranteeing delivery. You take no chance. Send for our catalogue for full information and why you should buy chicks.

**CLYDE CHICK HATCHERY, Box 5M, Clyde, O**



**CHIX** FROM TWELVE LEADING VARIETIES of heavy layers on free range. Reasonable prices. Get catalog and order NOW.

**SUNBEAM HATCHERY, H. B. Tiffin,**  
Box 303, Findlay, Ohio.

**LOOK! CHIX EGGS** S. C. WHITE LEGHORNS, 230-264 egg strain. Prices greatly reduced for 1922. Satisfaction and delivery guaranteed. Hundreds of satisfied customers. Catalog FREE.

**GERIG'S LEGHORN FARM**  
Box 50, Auburn, Ind.

**BABY CHICKS** S. C. Buff Leghorns, one of the largest flocks in Michigan. My price is in reach of all, only \$15.00 per hundred. Detroit winners, none better.

**LAPHAM FARMS, Pinckney, Mich.**

**The 'Old Reliable' OHIO HATCHERY** which has been in the business TWENTY-TWO YEARS can supply you with the best Chicks from all leading varieties and at reasonable prices. Get our Free Catalog NOW before you order. Chicks elsewhere. 100 per cent Live Delivery Guaranteed. To your door by Prepaid Parcel Post.

**THE UHL HATCHERY, Box 502**  
New Washington, Ohio.

### CHICK PRICES SMASHED

This was the heading of our ad. last season. Now our prices are not smashed yet, but if quality is worth something to chick buyers, then I will say try our chicks this season. We have five varieties to choose from. We guarantee 97 per cent alive upon arrival and pay parcel post charges. Satisfaction guaranteed.

### CITY LIMITS HATCHERY

Route 5 Holland, Mich.

**CHICKS** for 1922 season from Michigan's old reliable Hatchery. White Leghorns, Anconas, Barred and White Rocks and Reds, the popular laying strains. High record, expert Hogan tested flocks only. Preference given early orders. Chicks delivered Postpaid and full count strong live chicks guaranteed. 14th season. Fine instructive poultry catalog and price list free. We want to show you that we deserve your business. Write

**HOLLAND HATCHERY, Holland, Mich., R 7**



### 500,000 CHICKS

at very reasonable prices form our heavy laying strain of English and American White Leghorns, Brown Leghorns and Anconas. Shipped by parcel post prepaid. Special prices on 1,000 lots. Catalogue free.

**Wynyarden Hatchery**  
Box B, Zeeland, Mich.

**CHICKS FROM BARRON STRAIN SINGLE** comb White Leghorns of high egg record. Also from selected heavy laying S. C. Brown Leghorns and Anconas, \$15 per 100. R. I. Reds, \$18. Write me your wants NOW. Circular.

**STAR HATCHERY, Box 500, Holland, Mich.**

### Baby Chicks Eleventh Year

English type White Leghorns and Brown Leghorns. Bred to lay large white eggs. You are not buying chicks just for the sake of keeping chickens. You are looking into the future so as to have a good flock of the best layers. Our stock is of the best. Our chicks are of the highest quality. Safe arrival guaranteed. \$14.00 per 100; 500 chicks \$67.50, parcel post paid. Let us mail you our catalogue.

### WOLVERINE HATCHERY

ZEELAND, MICH., R. M. 2.



### CHICKS

from stock that is true to name in both plumage and type. Selected each year for health and high egg production. LEGHORNS, ROCKS, ORPINGTONS, WYANDOTTES, REDS and MINORCAS. Descriptive catalog free. Get it before ordering elsewhere.

**STANDARD POULTRY CO., Route 21,**  
Nappanee, Ind.

Day Old Chicks. Standard varieties. Make your selections. Catalogue and price list now ready.

**H. H. PIERCE, Jerome, Mich.**

### DAY OLD CHICKS

From the heart of Michigan's Baby Chick Industry section. The two heartiest breeds, Leghorns and Anconas. Send for catalog.

### JAMESTOWN HATCHERY

JAMESTOWN, MICHIGAN

### DAY OLD CHICKS

Order your Baby Chicks now from selected heavy laying strain single comb White Leghorns, English strain Brown Leghorns, Anconas and Reds. Send for price list.

**HILOREST HATCHERY, R 2, Holland, Mich.**





# MARKET FLASHES



## TRADE AND MARKET REVIEW

**F**INANCIAL reports that have to do with development of business and trade for the new year seem to indicate a "spotted" situation; from some localities, generally large trade centers, come very encouraging reports concerning progress in trade development, while from country districts information is not nearly so encouraging. The various distributive activities of the country seem to be passing thru experiences which are always noted in connection with periods when trade and manufacturing are struggling to recover from the effects of a long-drawn-out depression. One thing is certain, namely, buyers at wholesale and in a jobbing way are not making large commitments but are limiting their purchases to actual necessities; it is a self-evident fact, that merchants, located outside of the large cities of the country, are not counting on the spring and summer trade that they have usually had.

The general financial outlook seems to be just as badly mixed as trade and market prospects; it is claimed that there is an abundance of money available for investment in certain kinds of securities, such as government bonds, municipal bonds and non-taxable securities of all kinds but very little that is available for the purchase of industrial securities. It would seem almost like a paradox, when men of large resources, who profess an anxiety to see the country return to a general industrial prosperity, will not risk one dollar of their money in an effort to bring about the desired end.

The situation in connection with the steel and iron trade, seems to be improving rapidly with a rapid growth in the volume of orders for structural products and essentials of all kinds; this is encouraging, in that it indicates a belief in the kinds of the trade that with the coming of warm weather, a campaign of home and business building will be inaugurated. The U. S. Steel Corporation begins the year 1922 with a surplus of \$650,000,000. The net earnings of this great enterprise, during the last quarter of 1921, were \$19,612,033. A noteworthy feature of the company's report was the decline of nearly two million per month in the profits of the three months of which the quarter was composed. The outlook for the current quarter seems to indicate still smaller profits but with the beginning of April much larger returns are expected.

The record, in connection with commercial failures in the United States, during 1921, is not a pleasing one to contemplate but it is, in a way, very informing as to the enterprises which are best calculated to weather the storm in a great financial depression. We quote from the last monthly report of the Federal Reserve Bank of Kansas City: "Commercial failures in the United States in 1921 numbered 19,652, which was 1.02 per cent of 1,927,304 concerns doing business. This was the largest number of failures for a single year since 1915 when there were reported 22,156 insolvencies. Liabilities involved by the failures was \$627,401,883, the largest on record, as against \$295,121,805 of liabilities in 1920. For the entire country there was an increase of 121.3 per cent in number of failures, and 112.6 per cent in liabilities in 1921 over 1920. Of the 19,652 failures for the last year 4,495 were classed as manufacturing, 13,999 as the trading group and 1,158 as agents, brokers, etc."

The figures in relation to farm failures are not available; one thing is certain, namely, many more families are affected by a city failure than by a farm failure.

The wheat market is firm with a marked upward tendency. Wool, cotton, live hogs and lambs are firm and steady at recent advances; the demand for cotton and woolen manufactured goods is moderately active. There is a marked tendency to re-

Edited by H. H. MACK

## MARKET SUMMARY

Grain market continues strong. No. 2 rye up to 92c at Detroit. Beans active and in demand after recent advances in price. Butter and eggs higher. Poultry unchanged. Dressed hogs and calves dull. Potatoes steady. Cattle dull. Hogs and sheep higher.

(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 one-half hour of going to press.—Editor.)

duce wages, all along the line and a persistent demand for a reduction in freight rates, is heard on every hand.

Business is booming on the New York Stock Exchange, in spite of the fact that rates for call money are rising; a call money rate of 6 per cent has been quite common on "Change of late. The weekly bank clearings were \$6,619,342,000.

## WHEAT

Last week we stated our conviction that the wheat market had at

WHEAT PRICES PER BU., FEB. 8, 1922				
Grade	Detroit	Chicago	N. Y.	
No. 2 Red	1.35		1.37 1/2	
No. 2 White	1.32	1.23 1/2		
No. 2 Mixed	1.20		1.28 1/2	
PRICES ONE YEAR AGO				
	No. 2 Red	No. 2 White	No. 2 Mixed	
Detroit	1.77	1.75	1.75	

last found its feet and that a steady upward trend had set in. We little suspected, however, the true strength of this trend. From the day the above prediction was written wheat prices have climbed steadily until as this is written the cash grain is quoted at \$1.33 at Detroit and \$1.27 at Chicago. This is an advance of 8 to 12 cents a bushel in ten days time. Nothing sensational has happened in the grain world to bring about this advance. It is simply the reaction from a long period of depression and artificially suppressed strength. Everyone has known for months that the potential demand is in excess of available and prospective supplies. Everyone has been entirely familiar with the very low and constantly deteriorating condition of winter wheat in the southwest. Everyone has suspected at least that farm reserves are the lowest in years. With these conditions existing and of common knowledge it is no wonder that the grain markets are showing signs of renewed vigor. The wonder is that they have remained so sluggish for such a long period of time. Heretofore, advances of any consequence have been followed by equal de-

clines, but despite the fact that the late advance is the largest for many months and brings the price of wheat to the highest point since last September we look for no material changes in the sentiment. We expect to see pronounced activity in grains from now on with slowly ascending prices.

## CORN

The strength shown by the wheat market last week affected corn some

CORN PRICES PER BU., FEB. 8, 1922				
Grade	Detroit	Chicago	N. Y.	
No. 2 Yellow	.58 1/2	.53	.71 1/4	
No. 3 Yellow	.56	.51 1/4		
No. 4 Yellow	.55			
PRICES ONE YEAR AGO				
	No. 2 Yellow	No. 3 Yellow	No. 4 Yellow	
Detroit	.62	.59		

but not enough to change prices only in a limited way. All grades made slight advances at Chicago while No. 3 and 4 yellow went higher at Detroit and No. 2 yellow declined. Receipts of corn were large, farmers showing a strong inclination to unload in spite of low prices. This feeling was particularly in evidence in the west. Chicago received around 9,105,000 bushels last week, over 4,000,000 bushels more than were shipped out. Exporters are in the market each day but the large receipts cause them to take their time about making purchases; they are careful not to cause the grain to develop too much strength. Domestic demand is fair and quiet. Reports from Argentine show the corn crop was benefited some by recent rains but considerable more moisture is needed, it is said, before any lasting improvement will be noticeable. On Monday of the current week export demand increased and receipts decreased with the result that prices are higher. The Detroit market gained 2c and the tone is firm.

## OATS

Some of the strength in the wheat market has contributed to a steadier tone in oats, though the portion of this grain is not yet all that could

be desired or expected in view of the shortness of supplies and the im-

OAT PRICES PER BU., FEB. 8, 1922				
Grade	Detroit	Chicago	N. Y.	
No. 2 White	.41	.38 1/2	.48 1/4	
No. 3 White	.38 1/2	.35 1/4		
No. 4 White	.35			
PRICES ONE YEAR AGO				
	No. 2 White	No. 3 White	No. 4 White	
Detroit	.43 1/2	.42	.39	

proved condition of other grains. A year ago the visible supply of oats was 849,000,000 bushels. Today they are 495,000,000, and it is estimated that there is a probably shortage of 150,000,000 bushels. Farm reserves are said to be the lowest ever reported. Export business in oats is gradually increasing but has not yet reached a point where it promises to become a price factor. With continued strength in wheat and corn, however, it is only a question of time before oats will respond to the improved feeling.

## RYE

Rye was quiet at Chicago last week and prices declined 1-2c but at Detroit this grain was susceptible to the strong wheat market and the price advanced 3c. Monday of this week the grain was strong on both markets and prices advanced. No. 2 is worth 91c at Detroit and 87 1-2 @ 90c at Chicago.

## BARLEY

Prices in the barley market are some higher at both Chicago and Detroit. Possibly there is slightly more activity in the trading at Chicago, but as a whole, the country over, the tone is unchanged. Barley is 54 @ 62c per bushel at Chicago and \$1.15 @ 1.25 per cwt. on the Detroit market.

## BEANS

Last week's bean market fooled a lot of people, who thought that

BEAN PRICES PER CWT., FEB. 8, 1922				
Grade	Detroit	Chicago	N. Y.	
O. H. P.	5.15	5.30	5.37	
Red Kidneys	5.15	5.30	5.37	
PRICES ONE YEAR AGO				
	O. H. P.			
Detroit	4.00			

the strength developed during the early part of the week could not hold. It not only held but increased as the week went on, the Detroit market raising from \$4.60 to \$5 per cwt. within the week. And even this large advance has failed to bring out any quantity of beans. On October 1st, 1920, beans were quoted on Detroit market at \$5.25 per cwt. In less than a week they slipped down to \$4.55 and last week was the first time since then that the market has gone above that figure. All markets are now reporting increased inquiry for beans and gradually declining supplies. The market had advanced altogether too rapidly of late to warrant a belief in still higher prices in the immediate future. We still expect to see prices sag a little bit, but we also expect to see slumps followed by strong recovery. \$5 beans are here; \$6 beans are in sight.

## POTATOES

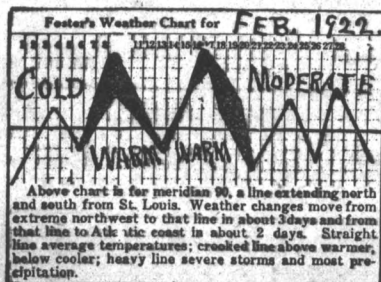
With so much good news to report concerning the grains and beans we

SPUDS PER CWT., FEB. 8, 1922		
	Sacked	Bulk
Detroit	2.20	
Chicago	1.90	
New York	2.25	
Pittsburg		2.25
PRICES ONE YEAR AGO		
Detroit	2.25	

dislike to have to advise our readers that the potato market has weakened and prices are slightly lower throughout the country. The bulge in prices a couple of weeks ago during the cold snap brought out considerable supplies held in storage at consuming points which added to the increased shipments during the mild weather that followed soon brought about a congested condition of the market. Farmers are

## THE WEATHER FOR NEXT WEEK

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



WASHINGTON, D. C., Feb. 9, 1922—The week centering on Feb. 22 will average colder than usual on meridian 90 from the Gulf of Mexico to the far north. The low temperature of that disturbance will be in northwestern Canada about Feb. 19, in Michigan Feb. 22, and in eastern sections Feb. 23. A warm wave will be in northwestern Canada near Feb. 17, in Michigan Feb. 20, eastern sections Feb. 21.

The week centering on Feb. 21 is one of the two principal storm periods of the month and these usually bring most precipitation in the form of rain snow or sleet.

From Feb. 11 to 22 stormy, rough weather will prevail most of the time;

not all the time in one place but as the storm moves across the continent from west to east. Each of the weather features is described and located in the above details.

February is one of the two stormy months of the year but I am of opinion that January will have been the month of greatest storms this year.

Most severe storms of March will be during the weeks centering on 16 and 27; of April 5 and 22; of May 9 and 26; of June 4 and 24; of July 3 and 26; of August 1 and 26.

One reason why extreme weather events are occurring is that the three greatest weather makers, Saturn, Jupiter and Mars are in the same locality of the skies. They appear to be near each other and to the unaided eye they are an interesting astronomical aspect. They are of vast importance to our race. Of course the Sun is responsible for our normal climate and weather, but the planets are responsible for our weather changes. But a number of official scientists must pass from power before the public can untidely accept these valuable facts. Progress is a slow traveler and usually comes as it is now coming in weatherology.

W. T. Foster



still free sellers of spuds and the market has been given little inducement for an advance. New York is practically cleaned out of potatoes and will have to look elsewhere for her supply the next four months. There is still a large quantity in hands of Maine farmers, but most of the western states have shipped a larger per cent of their crop than usual. We wouldn't worry about this market. As we have stated before we don't expect to see any fancy prices on potatoes, but we do expect to see farmers in this state getting considerably more than a dollar a bushel before next June.

#### BUTTER

The butter markets are having a discouraging time recovering their lost vigor. Occasionally the demand stiffens a little and the price goes up a cent or two a pound, but this is immediately followed by hectic selling which soon floods the market and forces prices down again. Wholesale prices on creamery butter range now from 30 to 36 cents depending upon quality. Receipts at primary points continue to exceed those for similar periods a year ago. The dairy industry is simply in the throes of an over-production period and it is doubtful if prices can long remain at their present levels.

#### EGGS

The situation in the egg market is about the same as in the butter market. Every Tom, Dick and Harry throughout the country has gone in for eggs the last few months, with the result that offerings are usually somewhat in excess of demand. On four markets, Chicago, New York, Boston, Philadelphia there were nearly six times as many eggs in storage last week as the corresponding week a year ago. Fresh eggs are commanding 38@39c a dozen in Detroit, but with the advent of the first spring months and milder weather increased receipts and lower prices are inevitable.

#### HAY

Hay shows little change. Demand is not in excess of receipts, the mar-

	No. 1 Tim.	Stan. Tim.	No. 2 Tim.
Detroit	19.00@20	18.00@19	17.00@18
Chicago	21.00@22		18.00@19
New York	25.00@27		23.00@25
Pittsburg	21.50@22	19.00@20	17.00@18

	No. 1 Light Mix.	No. 1 Clover Mix.	No. 1 Clover
Detroit	18.00@19	15.00@16	14.00@15
Chicago	19.00@20	17.00@18	16.00@17
New York	24.00@25	22.00@24	
Pittsburg	18.50@19	20.50@20	20.50@21

	No. 1 Tim.	Stan. Tim.	No. 2 Tim.
Detroit	21.00@22	20.00@21	18.00@20

	No. 1 Light Mix.	No. 1 Clover Mix.	No. 1 Clover
Detroit	20.00@21	18.00@20	16.00@20

ket breaking about even in this respect, and in many cases it is reported the poor grades that have been accumulating on the markets cleared away some last week. Demand for good hay continues such that this grade does not remain on the market only a short time.

#### ONIONS

Farmers who have onions for sale may consider themselves lucky. Prices are climbing rapidly, and some onion men look for prices to go as high as 12 or 13 cents a pound. Some sales were made last week in New York at \$10. In Grand Rapids last week a number of sales were made at \$8 per cwt.

#### WOOL

Wool markets are firm and trading is of good volume. The good

showing made by the government auctions held at Boston last week greatly strengthened the market and prices are higher. Manufacturers report a good demand for overcoating and certain dress goods but a slow trade in standard worsted suitings. Prices at Boston are as follows:

Ohio and Pennsylvania fleeces — Delaine unwashed, 36@48c; fine unwashed, 33@36 1-2c; 1-2 blood combing, 40@42c; blood combing, 39@40c.

Michigan and New York fleeces — Delaine unwashed, 42@43c; fine unwashed, 32@34c; 1-2 blood unwashed, 38@39c; 3-3 blood unwashed 38@39c; 1-4 blood unwashed, 36@37c.

Wisconsin, Missouri and average New England—1-2 blood, 37@38c; 3-3 blood, 37c; 1-4 blood, 35c.

#### LIVE STOCK MARKETS

Chicago received 53,500 cattle, last week, being 3,500 fewer than the week before and 1,000 under the supply for the same day last year. With the exception of a little weak-

with the heavier kinds selling best.

The Detroit cattle trade was hardly ever known to be as dull and draggy as it is now; especially can the above be said of all of the better grades of killers and fat steers. About the best that could be done last week for prime bullocks was \$6.25; the before unheard-of feature of the trade is that a 2,000-pound bologna bull will bring within \$1 per cwt. as much as a prime yearling steer. A canvass of retail butchers in lower Michigan reveals the fact that consumers of fresh meat are demanding low-priced beef, regardless of what the quality may be. Butchers are cutting cow carcasses this winter that in other years they would not have permitted to come into their shops.

The men who have stuck to their sheep, in season and out of season, are again conceded to be the lucky fellows; with an appreciation of \$6 per cwt. in 90 days the lamb feeders who this year went looking for their money in the same spot where they lost it last year, will score one of the cleanest, easiest profits that

now shot its bolt goes without saying. With another crop of fat hogs fully six months away, it will be a hard matter to keep prices down.

Like the demand for beef, at retail, an important change has recently been registered in the kind of pork that can be profitably handled in the average city butcher shop. Buyers decline to accept pork that is inclosed in a casing of fat from 1 1/2 to 2 inches; they are calling for a large proportion of lean meat, liberally marbled with fat.

#### MISCELLANEOUS MARKET QUOTATIONS

Detroit, February 7th

BUTTER—Best creamery, in tubs, 33 1/2@34c per lb.  
EGGS—Fresh, candled and graded, 33 @39c per doz.

APPLES — Greening, \$3 25@3 50; Badwins, \$3 75@3; Spy, \$3 50@4; Jonathan, \$3 25@3 50; western, boxes, \$3@3 50.

CABBAGE—\$2@2 25 per bu.  
POPCORN—Globe, 5c; Little Buster, 10c per lb.

ONIONS—Eastern, \$3.50@9 per 100-lb. sack.

DRESSED HOGS—Small to medium, 10@11c; heavy, 5@7c per lb.

DRESSED CALVES—Choice, 15@16c; medium, 10@12c; large coarse, 5@10c per lb.

LIVE POULTRY—Best spring chickens, 24@25c; Leghorn springs, 20c; large fat hens, 20c; old roosters, 15c; geese, 18@20c; ducks, 28@30c; turkeys, 35c per lb.

HIDES—No. 1 cured, 6c; No. 1 green, 5c; No. 1 cured bulls, 4c; No. 1 green bulls, 3c; No. 1 cured calf, 14c; No. 1 green calf, 13c; No. 1 cured kip, 9c; No. 1 green kip, 8c; No. 1 horsehides, \$2.50; No. 2 horsehides, \$1.50; sheep pelts, 25c @31; grubby hides, 2c under No. 2.

#### GOVERNOR DEMANDS ROADS LOWER FREIGHT RATES

(Continued from page 3)

made by the Michigan railroads to the Interstate Commerce Commission, in which Michigan did not appear to advantage, the federal commission has permitted the carriers to divide the lower peninsula of Michigan into several rate zones with the result that the freight rates from Michigan points to all points outside Michigan progressively and substantially increase as the distance from the Michigan-Ohio-Indiana state line increases but without regard to actual distance. That has the effect of practically annihilating differences in distances of from 50 to 200 miles that should be favorable to Michigan points. In other words that some system greatly inflates the entire Michigan rate adjustment and completely disregards whatever natural advantages of location Michigan farmers may have with respect of the important market for the product. It is of equal importance that this maladjustment of Michigan freight rates not only effects the outbound shipments of Michigan products but also effects everything the farmer buys. Every piece of farm machinery and everything that he uses which comes to him from manufacturing points in other states pays a rate that greatly exceeds what would be charged for hauling the same shipment an equal or greater distance in any other direction.

#### ILLINOIS BREEDER AUCTIONS HIGH GRADE POLAND CHINAS

Last week's mail brought to this office a catalogue for the auction sale of L. T. Poland China hogs held on Feb. 9, on the Lakeview Stock Farm of Conrad Eckhardt & Son, at Dallas City, Illinois. Many of the bred sows that were offered to the public at this sale are the daughters of the famous Belmont Buster, the leading herd boar on the Lakeview Farm and one of the most noted sires of prize-winning Poland Chinas that the breed has ever known. The junior member of the firm, H. A. Eckhardt, who has conducted many successful sales in Michigan, had charge of the sale and was assisted by three other local auctioneers. Wesley Hille, of Ionia, was present at this sale, representing The Swineherd. — H. H. M.

#### WHITE LIGHT FROM OIL LAMPS NOW

Government Tests Prove New Light Beats Electric—Sensational Invention

A new lamp has recently been invented which burns common kerosene oil and produces a soft, white light said to be even better than electric or gas. Tests by the Government and leading Universities prove this new light is superior to ten ordinary oil lamps. It burns without odor, smoke or noise, is simple and economical, requires no pumping up and has been approved by the Underwriters for insurance.

The inventor, J. W. Johnson, Room No. 152, 609 West Lake St., Chicago, Ill., is offering to send one of these new lamps on ten days' free trial or even give one to the first user in each locality who will help him introduce it. Write him today for particulars. Also ask him to explain his agency proposition.

## ---going Henry one better!

When during the war years even Henry Ford nearly doubled the price of his cars and tractor, the subscription price of The Michigan Business Farmer remained the same as the day the first issue went to press.

Now we know just as well as Henry does, that the quickest way to bring back "good times" (and luckily for the farmers they are within sight) is for everyone to give as big a dollar's worth as the farmer has too!

The only way we can better the service we render YOU, our readers, is to increase the number of farm homes which The Business Farmer reaches every week.

You may think that we reach every friend and neighbor of yours, but we don't by a long shot! And the only way we can hope to, is by coming once again to the loyal men and women who have seen from the start what this weekly was to mean to the farmers of Michigan AND ASK FOR YOUR HELP!

*You have never failed this weekly!*

And now, when conditions seem hardest, is the time you can help us most.

So, we have decided to make you a special inducement to get your friends and neighbors to start taking The Business Farmer. Here is our offer:

**We will send The Michigan Business Farmer from now until January, 1923, for FIFTY CENTS (50c) to any new subscriber and we will start it coming with the very next issue.**

It is not a big thing for you to do, but when YOU make it a point to tell your friends and neighbors about this offer, you'll be surprised how thankful they are and we'll repay you with a publication so much bigger and so much better, because we'll be able to multiply our departments of service and our strength to fight your battles, by every name you add to our list.

Try and send in one, two or more names by Saturday of next week!

You will be doing your friends and yourself no greater favor than you do

**YOUR OWN FARM WEEKLY,**

## The Michigan Business Farmer

ness on Friday, the trade was strong at prices that ranged from 25 to 40 cents higher than the showing for the week before. The top for mature steers was \$9.25 and for yearlings, \$9.50. The cattle that brought \$9.50 were strictly prime pure-bred Angus yearlings, averaging 1,013 pounds and as good as care and the best food obtainable could make them.

The average quality of Chicago's cattle arrivals last week was only fair and because of scarcity, heavy steers sold best. Eastern dressed beef trade was dull all the week at prices which ranged from \$1 to \$3 lower than average of the week before. Other buyers bought fairly well and exporters took 750 cattle of the medium kind. The improvement in prices was felt in connection with all market grades, but medium priced cattle and common yearlings were hardest to move. The mature steers that topped the market at \$9.25 were Angus grades averaging 1,436 pounds. Stockers and feeders were active all the week

they have ever made in the feeding business.

Chicago got 6,500 more sheep and lambs, last week, than the week before but the average quality was decidedly low. The only kind that showed a substantial advance last week from the week before was the best lambs which showed a gain of about 25 cents per cwt. Medium lambs were just about steady while the poorer grades were dull and lower. Sheep traveled just about the same road as lambs, handy weights holding steady while the heavier grades were 50 cents lower. Heavy yearlings dropped 75 cents to \$1 per cwt. from the showing of the week before. The present outlook seems to favor farther advance in the prices paid for top lambs.

Receipts of hogs are falling in all markets and prices are moving, rapidly, upward. The shipping demand at Chicago and other eastern points, during the last 90 days, has shown just how scarce fat hogs were, everywhere, except in the corn belt; that the last mentioned district has

#### SEED—HAY—STRAW

I have 45 tons of nice June clover hay, all nice. Almost 15 tons of oats and barley straw, 8 tons of millet straw, 5 tons of June clover straw, 100 bushel of millet seed, 500 bushel of old oat seed, 500 bushel of new oat seed. Write for prices or come and see. Cash must accompany all orders. For reference, Rosebush State Bank.

B. C. LARRANCE

R. 2 Rosebush, Mich.



# Belgium Imported Melotte

# 22%

**M**ELOTTE, the Edison of Europe, manufacturer of the greatest Cream Separator the world has ever known, announces a sweeping reduction in prices. Labor conditions in general together with tremendous re-building and re-organizing efforts put forth by this big man of Belgium has resulted in cutting production costs to the bone.

And right now at this particular time exchange rates are extremely favorable. Take advantage of this condition while it lasts. Get the most for your American dollar. Buy now and save money.

Before buying any separator find out how the Melotte has won 264 Grand and International Prizes and how, for efficiency of skimming, ease of turning, convenience of operation and durability—the Great Belgium Melotte has won every important European contest. Find out why 500,000 Melotte Separators are in continuous use today.

## Our 15 Year Guarantee

Every Belgium imported Melotte Cream Separator is sold under an absolute, ironbound, 15-year guarantee. No Melotte is ever sold except under this guarantee. A guarantee written in plain English so that you can understand it. A guarantee that is 100% stronger than any other separator guarantee ever made. A guarantee that really guarantees something—upon which you can absolutely rely—an absolute protection to the purchaser, and which binds us to our bargain.

## What U. S. Government Says:

Vibration of a cream separator's bowl will soon cost you more money in cream waste than the price of your separator. U. S. Government Bulletin No. 201 says that a perfectly true motion of the bowl is absolutely necessary. The bowl is the vital part of any separator—the part where the cream separation takes place.

## Self-Balancing Bowl

The Belgium Melotte is the only single-bearing-bowl separator made. This patented bowl hangs from one frictionless ball bearing and spins like a top. It is self-balancing. It skims as perfectly after 15 years' use as when new. Positively can not ever get out of balance—can not vibrate and thus cause cross currents which waste cream by re-mixing with the milk. The 600 lb. Melotte turns as easily as the 300 lb. machine of other makes. Spins for 25 minutes unless brake is applied. No other separator has or needs a brake. The Melotte bowl has solved the problem of perfect skimming.

# \$7.50

after 30 Days  
Free Trial

## —NO MONEY DOWN—FREE TRIAL—SMALL MONTHLY PAYMENTS—DUTY FREE

We will send an Imported Melotte Cream Separator direct to your farm on a 30 days' absolutely Free Trial—no deposits—no papers to sign—use it as if it were your own separator. Satisfy yourself that the porcelain bowl is as easy to clean as a china plate. Compare it—test it in every way.

When you are convinced the Melotte skims cleaner, turns easier, washes quicker, has one-half less tinware to clean, lasts longer than all others, then pay \$7.50 as first payment and the balance in small monthly payments until the separator is paid for.

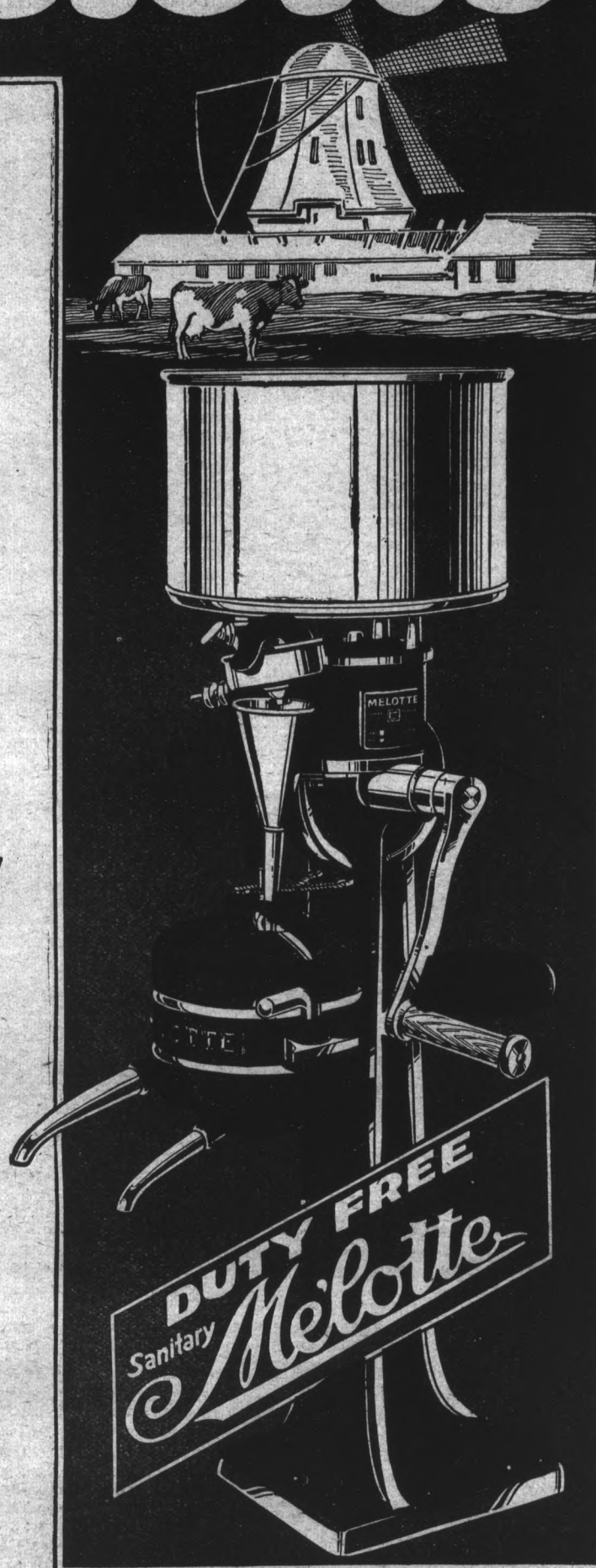
## Send No Money!—Easy Payments!

After 30 days free trial, then send only the small sum of \$7.50 and the balance in small monthly payments. The Melotte pays for itself from your increased cream checks.

You're not to send one cent until you've used this great Belgium Melotte and have made up your mind

it is the machine you want. Keep it for 30 days and use it just as if it were your own machine.

Compare the Melotte separator with any other—test them side by side. Then send your milk to the creamery. Let them prove which separator skims the cleanest.



The Melotte Separator, H. B. Babson, U.S. Mgr.  
Dept. 9301 2843 West 19th Street, Chicago, Illinois

Without cost to me or obligation in any way, please send me the Melotte catalog which tells the full story of this wonderful separator and M. Jules Melotte, its inventor. Also send me your revised price list showing 22% reductions.

Name \_\_\_\_\_

Address \_\_\_\_\_

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## Send This Coupon

Mail coupon for catalog giving full description of this wonderful cream separator. Read about the porcelain-lined bowl. Easy to clean as a china plate. One-half less tinware to clean. An exclusive Melotte feature. Other exclusive Melotte features described in full.

Don't buy any separator until you have investigated the Melotte. Take advantage of the 30 day free trial which Mr. Melotte has now authorized us to offer. Test the Melotte against all other separators and satisfy yourself as hundreds of American farmers have done that it is the world's greatest separator. The only separator that requires a brake. It is so easy to turn that it spins twenty-five minutes after you stop cranking. And remember it is guaranteed for 15 years. Don't wait—be sure to mail coupon TODAY!

The Melotte Separator, H. B. BABSON  
Dept. 9301 2843 West 19th Street Chicago, Illinois  
U. S. Manager