

ANOTHER WOOL POOL

THE Michigan State Farm Bureau is planning a third or 1922 wool pool. With the marketing of the 1921 pool almost completed and work on closing the pool books quite close on hand, the State Farm Bureau executive committee on January 10, instructed Clark L. Brody, general manager of the State Farm Bureau, to begin preparing plans for a 1922 wool pool.

conditions Wool marketing improving steadily in the United States. This year Michigan wool pooling farmers sold their wool on a rising market, a market which in a rising market, a market which in May offered 18 cents for 3-8 cloth-ing wool, 23 cents for 3-8 combing and 22 cents for 1-4 combing. In January 1922 the market paid 30 cents for 3-8 clothing, and 30 cents for 1-4 combing wool. A corres-ponding increase in price was noted in other grades. The foregoing figures were taken from the very first sale of 1921 wool—a small block in May and a January 1922 first sale of 1921 wool—a small block in May and a January 1922 sale. The Farm Bureau began the real movement of 1921 wool in late August.

The State Farm Bureau wool pool is declared to have made remark-able progress in the past two years in reducing an untried phase of co-operative marketing to efficient methods of procedure. Experience has improved some of the early pooling methods and there is yet a con-

Current Agricultural News

stant effort to better the service and to reduce the cost, says the "Farm Bureau.

THE LAST REMAINING PUBLIC TIMBER LANDS IN PANGER

By P. L. Buttrick, Forestry Department, Michigan Agricul-tural College.

N 1905 CONGRESS took from the hands of the Department of the Interior the management of the National Forests and placed them in the hands of the Department of Ag-riculture. It did so for the protection of some 150,000,000 acres of public timber land, this being almost the last public owned timber land in the country. The public ownership of this land is essential for the protection of the agricultural interests in the regions where the for-ests occur, as well as for the perpet-uation of our timber supply since they furnish water for irrigation and protect the farm lands-from landslides

With the increasing scarcity of lumber cut from private holdings and its consequent rise of prices which is bound to continue despite temporary set backs, we shall need this public timber which can be marketed at reasonable prices and thus serve to check the unreasonable prices which private owners will ask

The transfer from the Interior to the Agricultural Department was made necessary by the inefficient and corrupt management of the Interior Department, which permitted the lumber interests to exploit the forests without relation to the public welfare. Under the management of the Agricultural Department the handling of the forests has been honest and progressive. For years the interests opposed to the forests have attacked them but now they are too well intrenched in popular approval to fear a direct attack. So the plan of transfering them back to the Interior Department with its political, reactionary and capitalis-tic viewpoint, under the guise of needed administrative reorganiza-tion, has been hit upon. / Such a change would pave the way for just what the farmers don't want-pri-vate control of our last timber re-sources. Since the Interior Depart-ment holds officially to the view that land and timber should pass into private cownership rather than remain as public property.

The so-called King Bill S 2740 is

These International Machines, Requiring Power at Drawbar or Belt, are Built to Work Right with Tractors:

BELT

Threshers **Baling** Presses **Feed Grinders Corn Shellers Ensilage Cutters** Huskers and Shredders **Huskers and Silo Fillers Cane Mills** Stone Burr Mills

DRAWBAR

Grain Binders Harvester-Threshers Headers **Push Binders** Mowers **Grain Drills Corn Binders Corn** Pickers Plows **Disk Harrows** Spring-Tooth Harrows Peg-Tooth Harrows. **Field Cultivators** Culti-Packers Manure Spreaders Wagons



Why Are the Most Successful **Farmers Using International** Harvester Equipment?

MORE than 100,000 farmers who have decided in favor of International Harvester tractors have been guided by the same impulses.

They knew that, because of its 90-year contact with farming problems, the International Harvester Company was in better position than any other company to design and build long-lived, practical farm tractors.

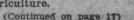
They knew that in the International Harvester line they could find both tractors and machines which were designed to work together as field units.

They were absolutely sure that the most practical and helpful service would be quickly and easily and forever available to them. Many years' experience with the International Harvester Company had convinced them that nowhere else could they find a line of power farming equipment so closely backed by satisfactory service.

They knew that these factors would guarantee their investments for years of usefulness. Year after year the wisdom of Titan-International Tractor ownership grows more apparent.

Let the judgment of these 100,000 farmers help you. For belt work now and for drawbar work in the spring, follow their advice. Use International equipment. Remember that both Titan 10-20 and International 8-16 now sell for \$900-lowest prices ever quoted on these tractors with their present equipment.





designed to put this transfer over. Request your representatives in . congress to oppose it.

(Editor's note: The executive commit-tee of the Michigan State Farm Bureau has already vigorously denounced this proposed transfer, and readers will do well to act upon Prof. Buttrick's sug-gestion along that line.)

TO HOLD HEARINGS ON TAX PROBLEMS HE MICHIGAN State Farm

Bureau has a farm bureau tax committee considering state

taxation problems from an agricultural point of view. Findings are to be presented to the state board of delegates at the fourth annual meeting of the State Farm Bureau at the Michigan Agricultural College, Feb. 2 and 3, according to present plans. The committee may present the farm bureau point of view at a taxation hearing at Lansing, Jan-uary 25, called by the Michigan Commission of Inquiry into taxation.

The Commission of Inquiry into Taxation, headed by Representative George Lord, is engaged in making an investigation and study of tax conditions in Michigan for the purpose of submitting a bill embody-ing constructive recommendations to the next regular session of the legislature.

gislature. In order to get the views of the changes the taxpayers relative to changes commission is holding a series of conferences to which representa-tives of various property interests are being invited. Agricultural int-erests of the state are to have a hearing January 25. The Farm Bureau, Gleaners, Grange and Farmers Clubs have been invited as representatives. representatives.

Several interests have been heard among them the state assessing officers who went on record as favor-ing a state income tax, an annual tax of one-half of one per cent on all intangible property, repeal of the Covert road act, utmost economy in compiling the state budget, and that the mill tax appropriations for the University of Michigan and the Michigan Agricultural College be hereafter based on the state equalization for the year preceding the year in which the legislature meets. Manufacturers, corporations, rail-roads and others were scheduled to meet the Commission of Inquiry.

ANNUAL MEETING OF BEET GROWERS

THE MICHIGAN Sugar Beet Growers' Association will hold its annual meeting and elect officers at the Eastside Auditorium at Saginaw, January 23rd, at 1:30 P. M. Speakers for the afternoon will be John Doelle, member State Board of Agriculture; James Nicol, president State Farm Bureau; A. B. Cook, master State Grange; D. Waid, Ohio State Farm Bureau Vegetable Marketing Department, and Frank Diekman, Illinois Agricultural Association.

SHORT COURSES AT M. A. C.

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HORT courses in agriculture at M. A. C., particularly those in horticulture and dairy management and 'manufacturing, are proving very popular this year and the enrollment on January 2, the opening day for part of them, showed that more men are taking the special courses than at any time since the winter short courses were start-ed! In the special eight-weeks ed! In the special eight-weeks course in horticulture, 35 men are signed up, 31 in the eight-weeks course in dairy production, 28 in the eight-weeks course in dairy manu-factures, and 18 in the four-weeks course in poultry, besides 51 in the general courses in agriculture.

In commenting on the increased attendance in the short courses in horticulture and dairy work. Direciry Dire tor of Short Courses Berridge attributed the increase to the fact that there has been money in fruit and dairy production this year. Also an increased interest in dairying has been created by the Milk and Alfalfa campaigns put on by the ex-tension department of the college in co-operation with the county agents. On the other hand general farming has not paid as well and this con-dition is reflected in a decreased at-tendance in the short courses in general agriculture.



State Banking Dept. Assures Farmers' Credit Aid

Banking Commissioner McPherson and Governor Groesbeck Pledge Assistance in Present Emergency

REQUENT attention has been called in these columns to the fact that while the . War Finance Corporation has loaned millions of dollars in every important state west of the Mississippi, not a single dollar has found its way into Michigan. For some weeks the Business Farmer has been engaged in an investigation of the reasons for this situation. This investigation has led to a limited survey of local credit conditions, to interviews with representatives of implement manufacturers, to sessions of the war loan agency for Michigan, and finally to the State Banking Department, at Lansing.

Facts established by the investigation show: That Michigan as a whole does not need 1.5 money of the War Finance Corporation as the badly as other agricultural states. In the south, western and lower eastern portions of the states most banks are having little difficulty in taking care of the farmer's needs at the tegal rate of interest

2. That in the north central, northwestern, northeastern, and extreme northern sections of the state, as well as in the more northerly sec-tions of the Thumb districts there are localities where farmers are being pressed for payment of their loans, upon various pretexts ranging from the alleged scarcity of money to insufficiency of security. Moreover, in these same sections thousands of farmers are being charged the quivalent of 12 per cent or more on loans of \$100 and upwards.

That many bankers are not familiar with 3. the War Finance Corporation, or else for reasons which can only be surmised, do not want to avail themselves of its funds.

4. That the war loan agency is not particul-arly keen on "selling" country bankers on the idea of going to the corporation for funds. It believes that having acquainted the bankers of the state with the provisions of the law, it has its duty. Perhaps it has. That the State Banking Department disdone its duty.

5. courages country banks from borrowing from this corporation to re-lend to farmers.

In justice to Mr. Hugh McPherson, the banking commissioner, an explanation of his attitude. is in order.

The country is passing through a severe crisis. Many banking institutions in other states have over-extended their loans and failed. There has not been a single bank failure in Michigan, because our bankers have been cautious. Many of them are loaned to the limit, and the By THE EDITOR

GIVE THE BUSINESS FARMER THE FOLLOWING FACTS:

Name and address of bank with 1. which you do business. Length of time you have lived in

2. the community. 3. Past relations with banker (friend-

ly or unfriendly). 4. Present obligations, and how se-

cured (mortgage, endorser, etc.) 5. Present needs. State if bank is pressing you for payment, and reason given by bank. THIS IS IMPORTANT. Are you in need of, additional funds? For what purpose? Has your banker refused to accomodate you, and why? What se-curity have you to offeer? How soon do you think you can pay your loan?

6. What interest is charged on sums of \$100 or more for ninety days and more?* Is this the prevailing rate of interest charged to farmers in your locality?

*Note: It is recognized legitimate practice for a bank to charge more than 7 per cent on small loans running up to a hundred dollars perhaps for short periods of time. No one objects to paying \$1, for instance, for a loan of \$100 for 30 days. Be sure to discriminate be-tween the two cases.

state banking department cannot pursue policy of encouraging loaning at this time. Mr. McPherson believes that to approve of Michigan banks going to the War Finance Corporation might be construed as permission to resume loaning upon an extravagant and dangerous scale.

Banks must endorse all notes which they rediscount through the War Finance Corporation. Technically then every bank which borrows from the War Finance Corporation increases its liabilities by the amount it borrows. That is the position which Mr. McPherson takes, and perhaps rightly. The Business Farmer holds, however, that actually and practically the bank does not increase its obligations. The security offered by the farmer must be adequate, so that no matter who finally holds the note he is amply pro-The only risk which the bank takes is tected. being called upon by the corporation to pay the note before the farmer is able to take it up. It

is, however, quite unthinkable, and the banking commissioner and members of the war loan agency so admit, that the War Finance Corporation, being a subsidized branch of the United States government should pursue any policy which would jepardize the country banks. The law provides for the liquidation of all loans within three years from date made, but it is generally believed that this time limit will be extended. from time to time to accomodate the banks and their farmer patrons.

Banking Commissioner McPherson is himself a farmer and comes from a line of farmers. He assures the Business Farmer and the Business Farmer believes him, that he does not want to see any pressure brought to bear upon farmers at this time to pay their loans if they are unable to do so. He believes that the banks of the state are able to extend farmer paper without assistance from the War Finance Corporation. But if not his department wishes to know about it and will act accordingly.

WHAT FARMERS SHOULD DO

So the situation as it stands today is this: No farmer who must have money for actual farming purposes, and can offer adequate security, need be denied. No farmer whose security is adequate need be pressed for payment of his loans if it is not convenient for him to pay them now. No farmer need pay more than the legal rate of interest for large and long-time loans. It may take a little time to actually bring about this condition, but this is the policy of the banking department and will be put into effect as soon as possible.

The Business Farmer does not believe that it is good business for the farmer to borrow now to buy high-priced luxuries or make investments outside of his farming business. But it does believe that he should be given every reasonable chance to continue his farming operations with the least possible loss and sacrifice of crops. And the Business Farmer would describe the assisting farmers in need of money to secure that money through the regular banking channels at fair rates of interest. Therefore, every farmer who is having any difficulty securing needed loans, or extending loans already made, at moderate interest rates, is urgently requested to report the full facts in his case to the editor of the Business Farmer.

Interests of Michigan Beet Growers Involved in Tariff Fight

THE WELL-KNOWN Dick Fletcher is great-ly worried over what may happen to Michigan sugar beet growers providing the present congress does not see fit to give the beet sugar industry the protection which it needs from cheap Cuban cane. In a letter to Sen. Townsend he nearly weeps over the plight in which he alleges the farmers will find themselves if Michigan sugar factories are put out of business by says Dick, cheap foreign competition. "For," "the beet farmer has an assured market for his crop in the fall, at a guaranteed price that yields a fair profit, and he is paid in cash. The sugar companies finance the farmer all through the crop raising season for his seed and labor."

We have a "sneaking suspicion" that Dick is talking once for the farmer and twice for the manufacturers as is usually the case when those known to sympathize with the upper dog begin to plead for the under-dog. However, it is not • the purpose of this article to impugn Mr. Fletcher's motives or to make light of the danger which impends to the domestic beet sugar industry. But we have become so plumb disgusted with the crocodile tears that have been shed over the farmer by those who wouldn't turn their hand over to actually help him get anywhere that we become grouchy, and pessimistic whenever the subject is broached.

For some reason we find it hard to sympathize with the stockholders of Michigan | sugar beet factories in their present predicament. If pro-

BEET GROWERS TO MEET

UST AS we go to press announcement is J received from Mr. R. P. Reavey, sec'y-treas., of the Michigan Sugar Beet Growers' Ass'n., that there will be an important meeting of beet growers at the Saginaw Armory, Monday, Jan. 25rd, at 1:30 P. M., when a number of agricultural leaders, in this and other states, will be present to discuss the problems before the industry. Every farmer and beet grower is urged to attend this meeting.

tection is not given from Cuban competition the property cannot be sold for enough money to gunbowne DIOW them up. UI course that means that the farmer can grow no more beets, but if he must grow beets at \$3, \$4 or even \$5 per ton, which is the present prospect, it will be perhaps just as well that he turns to other crops. No one interested in Michigan agriculture or industry wants to see this happen. They want to see the farmer continue to grow beets if he can get a fair price for them, and they want to see the factories continue to prosper if. they will pay the farmers a fair share of their profits. But it must be conceded that the impending calamity would hit the factories worse than the farms. *

The manufacturers of the state have been invited, cajoled and threatened into meeting with farmer representatives for the purpose of negotiating the prices and conditions of sugar beet contracts. But fortified as they thought by a never ending demand for their product, and having confidence in their ability, to continue forever to secure their acreage from the individual and unorganized farmer, they spurned all advances, hoed their own row, and are gamely trying to take their medicine. Had the sugar companies established a precedent several years back when prices were high of dealing friendly and openly with the organized producers, they would not have to eat crow now. They insisted on going it alone when prices were high. So why not let them continue the practice now that prices are low.

As this publication has pointed out many. many times, the making of a contract between producer and manufacturer cannot be fairly, nor wisely, nor safely, dictated by one party. It must be a matter of negotiation, taking into consideration all the factors surrounding both the production and the finishing of the product and all the factors which govern or may govern the selling price. Neither party can, without due regard for the rights of the other, continue for any length of time to make large profits at the expense of the other, and conversely. The farmers do not want to "hog" all the profits of the industry. Neither (Continued on page 17)

Surplus Milk Keeps Dairy Prices at Low Ebb

Fluid Milk, Cheese and Butter Prices all Suffer from Excess of Supply over Demand

WE NAMED last week certain primary causes for low dairy prices, as follows: Public opinion, over-production, loss of foreign markets, competition of foreign dairy products, profiteering resulting from present marketing system, and seasonable surplus. We discussed in detail the precise effects which the first four of the above factors have had upon dairy prices.

TOO GREAT A SPREAD

A review of the dairy situation is not complete without some reference to the present system of marketing. That it costs too much to get milk and its products from the cow to the consumer is a fact admitted by nearly all, including many who are partially responsible for the large cost. This spread varies considerably in different sections depending upon the extent of the competition. It is least where strong farmers' organizations hold sway and own a part of the machinery of distribution. It is greater where the farmers are unorganized or where farm organizations seek to influence marketing practices and cost without effective means for so doing.

Speaking before a group of producers not so very long ago, W. J. Kennedy, the big man in the Detroit milk distributing business, said:

"We know it costs too much to distribute milk. "We know it costs too much to distribute milk. We don't like it any better than you do to have to compete with 40 or 50 other companies and make the same rounds as they do. But what are we going to do about it. If we keep the business we've got to sell milk to all who come. It is costly, I'll admit, for a score or more milk routes of as many different companies crossing and re-crossing each other."

It cannot be denied that had the producers of milk secured strong control of the marketing end in the early days of their industry they never would have permitted such a situation to develop as is apparent in every large city where it costs two to three times as much to deliver milk as it does to produce it. But having contributed through negligence to this condition, it is foolish to argue that there is no remedy and that it should be allowed to go from bad to worse.

FUTURE UNCERTAIN

There are some milk producers' associations which are fully aware of the insecure situation in which the dairyman finds himself as a result of the dominating position held by the manufacturer and distributer. Proof of this fact is offered in a warning which Mr. A. H. Dexter, vicepresident of the Twin City Milk Producers' Ass'n., sounded at the annual meeting. Mr. Dexter said:

"Our secretary's report stated that our new contracts with the distributors provide that either we or they can cancel our contracts by giving thirty days' notice. Our relations with the distributors are more friendly than they have been at any time during our history and we sincerely hope and expect this to continue. However, there is always a possibility that we shall not be able to agree on prices and selling conditions, and in order to be prepared for any such emergencies, such a possibility must be considered. In case any group of large distributors should decide to cancel their contracts by giving us thirty days' notice, there is no question but that they can secure all the milk necessary to continue their business without buying from our association, as we realize fully that our mem-

OUR DAIRY SURVEY

FROM every section of the United States the M. B. F. is receiving information

about the progressive steps which milk producers' associations are taking to overcome the obstacles in their business. It reveals a decided tendency to enter the marketing end of the business and millions are being spent in the purchase and erection of plants for the utilization of milk in various forms. The complete results of this survey will be published in an early issue.—Editor.

bers do not produce but a small part of the milk tributary to these cities.

"If the distributors should cancel their contracts, the only way that we could continue to sell milk on this market, would be to sell it direct to the consumer. In order to do this, we would have to take over several of the large distributors' plants, or build similar plants of our own. The very least which we would have to do in such a case would be to raise our capital stock to \$1,000,000, and our limit of indebtedness to the same amount. I believe that it would be good insurance for us to be * * * prepared * * so that if such an emergency should arise we could act quickly * * * and immediately take over the necessary plants and equipment. The fact that we are prepared to do this may prevent this emergency arising.".

A far-seeing man, moved to speak his convictions by precisely the very same conditions which exist in the dairy sections of Michigan and which may result at any time in just such an emergency as the Twin City producers are urged to prepare against. But what are the organized farmers of Michigan doing to meet a situation which is bound to develop sconer or later as surely as night follows day?

A questionnaire which the Business Farmer has sent out to all milk producers' associations in the United States is bringing in a good deal of valuable information along this line. The most striking thing about these questionnaires is that in nearly all cases they show the price to the farmer to be the lowest in sections where farm organizations own no distributing or surplus plants and highest in sections where they In many localities farm organizations rest do. content with merely negotiating with distributors as formerly in the Detroit area, and in such cases the price to the farmer is generally low and the spread between his price and the consumer's price generally high, showing that there is a fundamental error in attempting to adjudicate prices based on cost of production where there are no effective means for enforcing them.

How' dairymen can hope to secure adequate prices for their product when the determination of those prices is entirely within the hands of corporate bodies whose selfish interests improve as the price of milk goes down, is something which this publication cannot understand. Many farm organizations have recognized long ago the futility and absurdity of trying to "arbitrate" prices with distributors and manufacturers, and have given up in disgust and gone into the business themselves. The dairyman can never hope to insure for himself a profitable price until he is in a position to say something about the marketing and the final selling price of his profitable price until he is in a position to say something about the marketing and the final selling price of his product.

THE SURPLUS PUZZLE

In our preceding article we discussed the causes for year-to-year fluctuations in the demand and supply of milk products. But the factor or factors which cause seasonal surplusages have fully as great an influence upon prices. And the practice of turning this surplus over to the retail distributor to do with it as he pleases only complicates the problem. Whether or not the purchaser of this surplus turns it to a profit or he uses it as a perpetual excuse for keeping down prices to the producer.

Due to a perfectly logical system of breeding we have seasons of large surplusages and seasons of shortage. How to induce enough milk producers to change their breeding customs in order to distribute the flow of milk more evenly throughout the year has been a matter to which many of the best minds of the industry have given considerable thought. As a rule the suggestion is not taken seriously by the producers themselves. The Twin City Milk Producers' Association, of Minnesota, is taking the matter seriously, however, and has announced a plan to encourage the farmer to breed for a more uniform milk flow. The plan is briefly as follows, as described in a recent issue of the official bulletin of the organization:

"The months of September, October-and November will be taken as a base, and each member will be allowed the average amount of milk produced in these months, and 20 per cent more." and for all over this amount he shall be paid a surplus price to be determined by the board of directors, depending upon the actual surplus."

In other words, the above months being the months of normally lowest production and highest prices, "the member who produces a fairly uniform amount of milk the year around is going to receive more for it than the one who produces five or six times as much in June as in September, October and November."

Further upon the subject, the official bulletin says:

"Right now is the time to plan to increase your production next fall: Of course, we do not expect to get all our milk changed over, so that we get more in these months than in other months of the year, and it is practically impossible to do this. Arrange to have just as many as possible of your cows freshen early next fall. Prices at this season of the year are always high, and there is every indication that for several years they will be extremely low during the summer season."

Would it be out of order to suggest that the milk producers' association of this state take this surplus matter under serious advisement? Milk prices look low now, but what will they be when May and June roll around? We may yet see milk selling for a cent a quart in parts of Michigan before another year. If we do it will be very largely the result of a surplus which ought never to have been produced, but having been produced is permitted to enter the channels of trade and demoralize markets and prices.

Dates for Farmers' Big Annual "Get-Together" are Drawing Near

RECENT ANNOUNCEMENTS of the speakers who will appear on the annual Farmers' Week program at M. A. C. give added assurance of one of the best series of meetings of this kind ever held in the middle west. G. C. Creelman has assured the committee in charge that he will be in East Lansing and will speak at one of the meetings. Mr. Creelman was formerly president of the Ontario Agricultural College and for the past few months has been in England serving on an important agricultural commission. He will be able to give the guests at Farmers' Week a good idea of the condition of agriculture in Europe.

The American Farm Bureau Federation will also be well represented on the program. President J. R. Howard and Director of Livestock H. W. Mumford, will have prominent places on the program. The annual meeting of the State Farm Bureau will be held during Farmers' Week. Among other speakers secured for the TOP-NOTCHERS ON FARMERS WEEK PROGRAM

J. R. Howard, president American Farm Bureau Federation.

H. W. Mumford, director of live stock, A. F. B. F. Dr. Marion Leroy Burton, president U, of M.

Dr. David Friday, president-elect, M. A. C.

Mr. G. I. Christie, director Purdue Experiment Station.

Mr. G. C. Creelman, former president Ontario Agricultural Collège. And many other speakers of promin-

And many other speakers of prominence and ability.

big round-up are G. I. Christie, director of the Purdue Experiment Station and Major John Barnett, chairman of the Soldiers' Land Settlement Board of Canada. With the soldiers' bonus question a live issue in congress now, Major Barnett's story of Canada's solution of this problem will be of more than ordinary interest.

Speakers for the women's section of the big week are of national reputation. Prominent among them are Dr. Caroline Hedger, of the Elizabeth McCormick Memorial hospital; Professor Barbara Bartlett, director of Public Health Nursing; Miss Martha Phillips, of the American Dye Corporation, and Dr. R. W. Bunting, president of the Michigan Dental Association, who will discuss the care of the children's teeth.

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Special arrangements are being made to take care of the children which must necessarily be brought along if the wives are to have the chance to enjoy and benefit by the big meetings held for them. The babies may be checked at the Women's building and will be under the care of competent instructors (Continued on page 17)

Story of Michigan's Largest Farming Enterprise

Prairie Farm in Saginaw County one of the Largest Producers of Pedigreed Stock and Seeds in the World

OMPARATIVELY few people realize that there is located in Michigan, one of the most important agricultural enterprises in the world. Down in Saginaw county, south and west of the city of Saginaw and near the junction of the Shiawassee and the Flint rivers, is located the largest farm in Michigan; the tract includes nearly 10,000 acres of very rich, alluvial soil, surrounded by dikes which range from seven to ten feet in height. On the inside and at the foot of the dikes are drainage canals, ranging from 30 to 50 feet wide, which were made when the dikes were built. Thru these dikes, at regular intervals, are sewer-pipe sluices, the outside ends of which are

kept closed whenever there is danger of the water rising on the outside of the dikes. In the season of high water, pumps are working night and day keeping canal levels down.

This tract of land is called the "Prairie Farm" and is owned and operated by the Owosso Sugar Co., which has sugar factories at Owosso and Lansing. Upon this farm are produced Royal Belgian draft horses, pure-bred Hereford cattle, pure-bred Duroc hogs, black top merino sheep and selected farm seeds. The manager and chief moving spirit in this important enterprise is Jacob DeGeus.

Upon the Prairie farm has been constructed a large number of convenient farm buildings, the accompanying illustration showing a group of horse barns. A large number of residence and cottages, a store building in which is located a postoffice, a farm office building, a clubhouse, a building in which is operated a motion picture show, a blacksmith shop, a battery of Ву Н. Н. МАСК



A Group of Pure-Bred Belgian Mares and Their Foals on Prairie Farm

tool-houses and garages, a building in which is located an electric lighting plant and a pumping station, a two-room school house and other buildings too numerous to mention; this growing young town is called Alicia.

The population of Alicia is migratory, coming and going according to the needs of the farm work. The largest number of men ever on the company's pay-roll being 366; when the writer was on the farm, the other day 82 men were on the roll. There are 65 pupils in the school. Mr. and Mrs DeGeus have seven children, five boys and two girls. Two of the sons assist their father in the management of the farm. While the principal crop raised on the farm is sugar beets, crops of corn, oats, barley and hay are also grown. The number of acres devoted to sugar beets, varies greatly with the seasons, the largest crop ever raised being 1,200 acres.

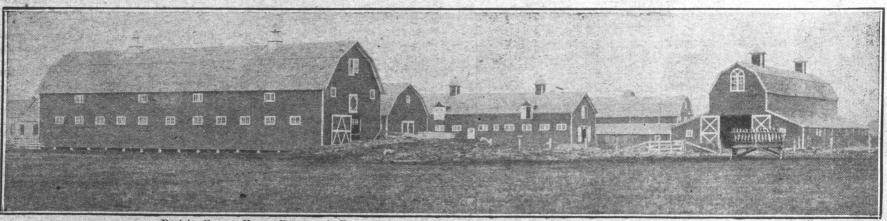
Early in 1919, Mr. DeGeus visited Belgium

and, before he returned, purchased twenty pure-bred Belgian mares and a pure-bred stallion. Colts have been raised from all of the available females each year; since the beginning of the enterprise, 26 pure-bred horses have been sold and there are now on the farm 82 head of pure-breds. On the occasion of a recent visit to this Prairie Farm, the writer saw some of the best draft horses that he has ever seen; in the pedigrees which tell the story of their wonderful ancestry, appear the names of the famous horses, Reve de'Or, Indigene du Fosteau and Brin de'Or. Prairie Farm horses have won championships, reserve championjunior championships, ships,

ribbons and gold medals galore at the International at Chicago and at the Michigan State Fair. Upon the farm at the present time are 20 pure-bred young draft teams, all in foal and broken ready to work.

Mr. DeGeus is a member of the State Fair board and one of the largest exhibitors of purebred live stock in the state. The Owosso Sugar Company's Belgian horses are one of the fair's most interesting attractions. American-bred horses, from the Prairie Farm, have frequently gone into the ring and won prizes from imported animals.

It was a cold, disagreeable day, recently, when the writer of this story visited the Prairie Farm but all discomfort was forgotten when the enthusiastic farm manager began to lead out some of the splendid samples of equine perfection for which this enterprise is noted. The lover of good horses, who desires to spend a "perfect day" among them, should visit Prairie Farm.



Prairie Farms Horse Barns. A Few of the Many Buildings Employed in This Great Farming Enterprise.

Farm Records and Accounts Reveal the Weak Spots in Your Farming

A N AGRICULTURAL extension worker of Montana one night found himself bunking with a rough and ready cow-puncher, a "true son of the west."

"What is your job?" asked the cowboy. "I am the Farm Management Demonstrator,"

replied the college-trained easterner. "Never mind about your title. I want to know

what your job is," "Why, I am here to teach the farmers and ranchmen how to keep accounts."

ranchmen how to keep accounts." "Ug!" grunted the cowboy, "What the hell

good is that going to do the farmers?" The usefulness of farm accounts is hard to explain to a hot-headed cow-puncher, who begrudgingly sees the plains giving way to the corn fields and long-horned cattle being replaced by dairy cows and herefords. Nevertheless, in Michigan more than five thousand progressive farmers are keeping account books, which are sold for fifty cents each by the Michigan Agricultural college, while a few thousand more are keeping records of one kind or another.

"Absolutely accurate or universally applicable cost of production figures do not exist," says F. W. Peck, former farm economist of the U. S. Department of agriculture, and now extension director in Minnesota. "This is apparent with farm products because of the many joint costs involved in the production of most of the staple productions, and the necessarily more or less arBy H. B. KILLOUGH Farm Management Demonstrator at M. A. C.

A NEW SERIES OF ARTICLES

H. B. KILLOUGH, farm management demonstrator at M. A. C., has agreed to write a series of plain, practical articles for M. B. F. folks on farm records and accounts. Mr. Killough comes from the "wild and wooly" southwest and talks a language which every farmer can understand. He is a graduate of the Texas A. & M. college where he was employed in extension work for a time. Later he did extension work for the Wisconsin Agricultural college, and came to the M. A. C. last spring as farm management demonstrator. Any questions which readers desire to ask Mr. Killough concerning the keeping of farm records and accounts will be cheerfully answered.—Editor.

bitrary allocation of some of the cost factors. However, the value of the results of careful studies of cost is not impaired by the fact, for what the farmer needs in the reorganization of the farm business is figures which show the comparative profitableness of competing enterprises." The purpose of an account book is to simplify the keeping of farm records and still retain sufficient data to determine:

1. Amount of capital invested; 2, increase or decrease of capital; 3, annual farm income; 4, returns from each farm enterprise.

The records necessary to keep are: 1, inventory; 2, financial record; 3, crop yield record; 4, feed records; 5, live stock production records.

The inventory is one of the most vital parts of a system of farm accounts even though it is taken only once a year and requires but a few hours work. Yearly increase or decrease in the property is determined in this way.

The Financial Record is a daily account of all cash transactions of the year that belong to the farm business. Receipts should be entered daily; expenses may be kept track of on the stubs of a check book, or by filing cancelled checks.

A summary of the inventory and financial transactions will show annual income. Probably the average Michigan farmer does not have to figure long to know that he is losing money this year.

ARE YOU MAKING OR LOSING MONEY?

Many farmers do no more with their acccounting than to take an inventory, keep expenses and receipts, and summarize these into an income statement at the end of the year. Others go a step further by checking up production and feed from time to time tc find which are the boarder cows. (Continued on Page 20)



armers Service Bureau

(A Clearing Department for farmers' every day troubles. Prompt, careful attention given to all complaints or requests for information ad-dressed to this department. We are nere to serve you. All inquiries must be accompanied by full name and address. Name net used if requested.

UP TO HIGHWAY COMMISSIONER UP TO HIGHWAY COMMISSIONER If a certain sum is raised by the voters of the township for a specified piece of road and the highway commis-sioner uses only a part of said sum with-out finishing the road, can he be com-pelied to use the rest of that money in finishing said road? There is about 10 roads of bad sand at the foot of this hill that greatly lessens the value of what he did de. I thank you.—S. L. Mol., Lowell, Mich.

The statute does not permit the using of these funds for the repairing of any other particular road but leaves the matter of repairing this road up to the township highway commissioner and the township board, so that if the commissioner refuses or neglects to make the repairs, in accordance with the vote of the people as expressed when raising the fund for that particular purpose, the matter should be placed with the township board who undoubtedly will order the repairs in accordance with the wishes of the people.—Harry H. Partlow, Legal Adviser, Michigan State Highway Department.

LIABLE FOR VALUE OF STOCK How can a farmer's club be organized and managed so that it can buy land, build a clubhouse and contract some debts, if necessary, and then if the club fails be so that none of the members will be liable for the debts of the club to an extent beyond \$20 each?—M. F., Michigan.

You can incorporate under the statute and be liable only for the value of your stock in the corporation.-Legal Editor.

ANOTHER "FOXEY" ENTER-

PRISE PRISE Mr. A. S. Fox, who has dictated "personal" circular letters to hun-dreds of farmers, as president of the "Franklin Tire & Rubber Co." and the "Simplex Tire & Rubber Co.," is in a new role. His latest "personal dictation" is in the capa-city of president of the Regal Tire & Rubber Co. His specially seems Rubber Co. His specialty seems 8 to be "personally dictated" letters, and "guaranteed" "special racing and heavy duty aeroplane tires." From what we are able to learn of the activities of Mr. Fox we, warn our readers against patronizing any concern with which he may be con-nected.—Editor.

SECOND HUSBAND HAS NO INT-EREST IN ESTATE

Husband and wife have a joint deed to a farm. Husband dies, their farm goes to the widow. She marries again, then she dies. Can the second husband claim any of her property by law? She has children by first husband but none by second.—M. H., Allegan, Mich.

Upon the death of the first husband the entire real estate becomes the absolute property of the widow. Her marriage again does not change the title in any way and upon her death the entire real estate goes to the children of the wife, the hus-band takes no interest therein.— Legal Editor.

EX-SERVICE MAN NEEDS CASH I wish to ask if state banks have the right to charge a bonus on a note be-sides the 7 per cent interest they get? Also, I am ex-service man and In need of some money. Can you advise me where I can find out more about it? My banker claims it is left to the board. We have property worth enough to cover the full amount and more than we should want to borrow. Reader.

The banks have no right to charge more than 7 per cent interest, either in the form of bonus, discount or your question is not clear. We know of no government provision other method. not clear. We for loaning government funds to exservice men. Some states, like Michigan, have passed bonus laws, and the government offers vocation-al training, but we know of no other government benefits open to the ex-soldier. It is a pity and a shame that you boys who have fought our country's battles have to pay usury in order to get back on your feet, but for the time being there is no remedy. Usury in Michigan must be stopped and the

next session of the legislature will be asked to consider ways and means for doing it.-Editor.

ANOTHER "LOST" RELATIVE

G.W. Craig of Osseo, Mich., re-quests the co-operation of Business quests the co-operation of Business Farmer readers to help him locate his brother, Al. Craig, last heard from at Muskegon in May, 1833. Said brother is described as being 68 years of age and when last seen had dark curly hair. In his youth he was a log driver in the Michigan lumber districts. The last word re-ceived by Mr. Craig from his brother was that he was about to leave Mus-kegon to take a carload of horses kegon to take a carload of horses to Washington. Anyone having information concerning the past or present whereabouts of this man should communicate with us or our subscriber.-Editor.

SEE LOCAL ATTORNEY

SHE LOCAL ATTOKNEX I have had some trouble about a rented farm. If rented this farm last spring in the month of April, from a man that bought the farm a year age on a contract. Now this man can't hold the farm and it goes back to the form-er owner. Could the former owner put me off before spring?—H. B. M., St. Louis, Mich.

The tenant takes the rented farm subject to the any rights that may exist against the man who rented to him. You are entitled to notice to quit and notice of termination of the contract of sale and it may be the contract signed by your landloard will be of such a nature that a three months' notice will be required. This can only be told by an examination of the contract. You had better state the facts to some local at-torney and obtain his assistance should there be an effort to move you before spring.-Legal Editor.

COMPANY REFUSES TO SETTLIG On the second day of last Argust I drove my car to Indiana, and between South Bend and Mishawaka a man ran into the rear of my machine with a tryck. The trick belonged to the South Bend Creamery Co. I called at the of-fice and they promised to settle my claim of \$12.60 for gas tank and tail light, but they have not yet done so, and re-fuse to answer my letters. I would like your advice on what to do.—R. S., Fre-mont, Mich COMPANY REFUSES TO SETTLE

We wrote the South Bend Creamery Co., on your behalf but have been unable to receive any satisfaction. The manager disclaims all re-sponsibility on the part of his driver. There is nothing, so far as I can see, that you can do. The amount in-volved is so small and the company is located so far away that it would not pay to sue. Mark your loss up to experience and forget it. Editor.

THE AUTO KNITTER ESPITE the fact that numerous articles have been published in this department from time to time concerning the widely adver-tised sock knitting machines, such as the Auto Knitter, we continue to receive many inquiries of this na-ture. To all we must say that we have no personal knowledge of the cueration of these machines. The majority of opinions as expressed in these columns by those who have used these machines seems t be been unable to receive any satisfac-tory. Occasionally a user tory. Occasionally a user reports that she is able to do what the makers claim for the machine, but in the greater majority of cases, purchasers of these machines have met with indifferent success. Whether the varying results are due to variations in the machines or to the skill of the operators we cannot say. All we can say is that some succeed with the machine while others fail. Persons desirous to purchase one of these machines for the purpose of adding to their income should buy them on a trial basis if possible, but in view of the experience of others it would seem unwise to pay out \$50 or \$60 cash for a machine the success with which is open to serious question .--- Editor.

SOY BEANS

Reading that soy beans are good feed for hogs, would like to know if they can be fed ground or if they should be boiled, and where soy beans may be bought and, also, what is the average yield per acre.—F. L. K., Swartz Creek'

Soy beans are a very good feed for hogs, especially so, when being used as a forage crop or when sown with corn which is to be hogged off by the pigs. The soy bean, as a grain, when used as a protein supplement to corn or barley, is not as valuable as tankage or linseed of meal.

Experiments conducted at the Ohio and Indiana stations indicate that more grain is required to produce 100 pounds of pork where ground soy beans are used as a sup-plement to corn than is the case where either tankage or linseed oil meal is used as a supplement. The pigs do not seem to relish the soy beans and when the self-feeder is used as it was in the above experiments not enough soy beans are used to properly balance the ration. Further, when the ground soy beans are mixed with the corn in proper proportion to form a balanced ra-tion, not as good results are ob-tained as is the case with either tankage or linseed meal and corn. The soy bean ofilmeal or residue after the oil has been extracted is of considerably greater value than the ground soy bean. The soy bean may be fed either ground or boiled without grinding. The average without grinding. The average yield of soy beans in Michigan is in the neighborhood of 15 bushels with some yields as high as from 20 to 25 hushels under favorable conditions. I believe you could pur-chase soy beans as feed through the seed department of the Michigan State Farm, Bureau. - Geo: A. Brown, Professor of Animal Husbandry, M. A. C.

SECURING TAX EXEMPTION

I bought a piece of whid hand in Glad-win county and woald like to know if I cleared and planted a certain number of acres each year for five years with-out Hving on the place, would I be ex-empt of taxes or do the parties have to live on same?—S. K., Highland Park, Mich.

The exemption you. refer to is governed by Act. No. 208 of the pub-lic Acts of 1913. The following provision appears in Section1:

"The exemption herein provided for shall not be operative in any case, unless the purchaser, either upon contract or otherwise, actually resides upon and improves at least two acres thereof each and every year of the said five years in a manner to subject the same to cultivation."

From this you will see that the exemption cannot be allowed unless the purchaser actually resides upon the property.-Board of State Tax Commissioners.

ASK THE CHICKEN

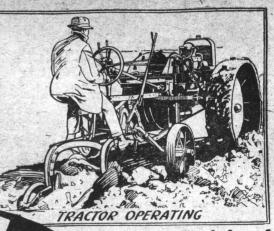
A and B have an argument. A cuts a chicken's head off with an ax. B sees it and calls it inhuman and says shoot-ing the head off with a gun would be more human. B claims head lives 30 seconds after being cut off with an ax. A claims when head is off it has no feel-ing.—T. S., Benton Harbor, Mich. ing.-

I have often been a "goose" and 'poor fish," but never a chicken. Particularly a decapitated chicken. So I cannot speak with absolute authority. It is popularly believed that life becomes extinct the instant the head is severed, regardless of the weapon used. Yet, it is said, that when the executioner struck that when the executioner struck the head of Charlotte Corday, the French revolutionist, as he lifted it from the guillotine, the countenance was seen to blush as if with indigna-tion. A pleasant thought, is it not? Personally I would prefer to have my head removed with an ax than blown to pieces with a gun. The wound is cleaner and it doesn't mess up the premises so much. T up the premises so much. $\Gamma \sim I$ cannot speak for the chicken.— Editor.

BUSINESS FARMER WHEN

WRITING TO ADVERTISERS

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ways in demand—they are preferred, because employers know M. S. A. S. quality training makes efficient men and worth the money. In business for yourself Detroit-training is an asset that brings tade. Decide to start now. Classes always open. Stay as long as you like to get the training thoroughly. Your enlike to get the training thoroughly. Your en-rollment entitles you to **Life Membership** in the School, with consulting privileges, or, privilege of returning at any time to brush up on new automotive equipment, without extra cost.

MICHIGAN STATE

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W. B. DEYO, Fordson dealer in Detroit, says:-"I have hired sev-eral graduates of the M. S. A. S. and find them energetic and the best mechanics. It is certainly a wonderful opportunity you are offering to young men".

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PACKARD MOTOR CAR COMPANY, says: "We have no hesitancy in recom-mending M. S. A. S. in every particular".



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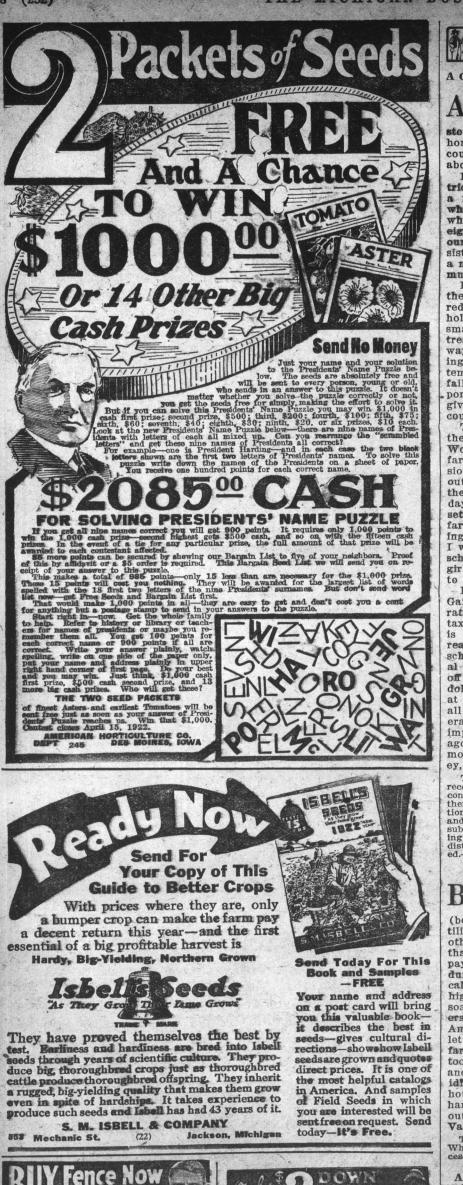
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hat the Neighbors Say P/A

A COUNTRY GIRL'S VIEW OF THE CONSOLIDATED SCHOOLS a reader of the Business

S A Farmer, I would like to say few words in regard to a little story in your issue of Dec. 3, by the honorable taxpayer of Geneses county, who is a little backward about giving his name.

I live in a consolidated school dis-trict and I am proud of it, as I have a free ride in a Ford motor bus which is warm and comfortable and which arrives at our farm about eight o'clock each morning. Before our school was consolidated my two sisters and I were compelled to walk a mile and a half to school through mud and snow.

Probably most people sometime in their lives have picked out a nice red apple to eat which had a worm hole in it, but by cutting out that small defect that apple was a nice treat to anyone. Well that is the way with the outside fellows looking at the consolidated school sys-They see that small defect but tem. fail to look into the improved op-portunities that the new system is giving to the boys and girls of the country.

The gentleman asks, "Where are the young men who go to college?" Would he have them back on the farm after completing their professional course and being able to go out and make their own mark in the world? How many farmers today are in a financial position to set their sons up in business on. farms of their own after completing their common school education? I want to say that the consolidated school system prepares the boys and girls to take a much shorter course to complete their work at college. I believe the gentleman has the Gaines and Swartz Creek school tax rate a little bit high. The present tax rate of Gaines school district is higher than the average for the reason that they have improved their school building, purchased additional school property and are paying an old debt of several thousand dollars. If the gentleman will look at his tax receipts he will find that all improvements have cost considerable more money compared with improvements five or even two years ago. I believe that he who shouts most pays the least .- Evelyn Cooney, Genesee County, Mich.

The above is one of scores of letters received the last couple of weeks on the consolidated school question. Some of received the last couple of weeks on the consolidated school question. Some of them have been in favor of consolida-tion but most of 'em ag'in it. As time and space permits other letters upon the subject will be published, preference be-ing given to letters from taxpayers in districts which have already consolidat-ed.—Editor.

SURPLUS PRODUCTS

BROTHER J. E. TAYLOR, Mont-calm county, tells me, a fruit-grower, to "dump my surplus (berries) on the soil as fer-tilizer." J. E., you're just an-other good fellow gone wrong on that foolish fertilizer dope. Who pays harvesting bills for grain damped as fertilizer up in Montdumped as fertilizer up in Montcalm county? Certainly not the highly protected manufacturer who soaked 'em \$300 for their last binders. Instead of this "100 per cent American" robber tariff rubbish, let's talk of the Bureau and other farm organizations making farm winter, marketing tools in fruits and vegetables in summer and our and vegetables in similar and one idie army working at least four hours per day on goods roads to harden their muscles and keep 'em out of devillry.—C. H. Merrifield, Van Buren County, Mich.

That's a good sized program, too. Who'll tackle the job and lead it to suc-

COLORADO READER SAYS: WANT your farmer readers to distinctly understand, that the Chicago cash price of wheat will be at least cash price of wheat while at least \$1.50 per bushel on or before April 1st, 1922, and will not sell below that price for three years. Why do I think so? Last year the speculators did not want wheat until they got the price down and so encouraged the country banks to have the farmers hold the grain that they (the speculators) would not have

(EAR

rfly Jr. No. 21/2

10

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Pre-War Prices

CUTPRICE CATALOG CATALOG BROWN FENCE & WIRE CO. Dept 1271 City Content of the set of the

WANT TO SELL LIVE-STOCK? AN AD IN M. B. F. WILL DO IT

14.1

LATES

Price and Quality talks. You get both when you buy from Brown. My new 1922 cut prices have made a big hit-lower than even My (1)

so much interest to pay. This year the banks have forced every farm-er to sell everything so fast as he could get it into merchantable condition and sent the money to the Federal Reserve banks to be loaned to the speculators at 6 per cent interest. Now the speculators have the wheat. What did they do to farmers last year? What will they do to consumers next year? Look over the situation and think! Real son it out.-A. A. Weston, Julesburg, Colo,

Glad to hear from you, old western subscriber. We, too, look for \$1.50 wheat by or shortly after April 1st, but we can't see as high prices for the next three years. The price will advance can't see as high prices for the next three years. The price will advance slowly we think until another harvest and will decline again thereafter pro-widing the harvest is anywhere near nor-mal. The world is again producing a lot of wheat and we haven't yet reached the low point which the reaction to greater production will surely bring about. How-ever, if all the farmers had your confi-dence and were financially able to hold wheat until they got ready to sell the price might easily be kept at \$1.50 for a limited period of time.-Editor. three slowly

THROUGH THE EYES OF YOUTH WE ARE readers of the M. B. F. and like it very much. Father

likes to read about the different ideas which the farmers have about government, capitalism, rail-roads, labor and such likes. Father thinks that if some of the big farmers would reduce their acreage they could reduce their expenses and have less kick coming about our gov-ernment and otherwise. We all know a large harvest means low prices.

Yes, the farm loans are for the benefit of the stock feeders, not for a man who wants to make a home. The country is loaded down with stock now.

I am in my 17th year. My father and I handled 262 acres of and this year. We bought a tractor last spring which I operate myself. My father would rather handle horses. We did our farming much better, easier and faster than before, although we were caught in that cy-clone about the fifth of July. The lightning struck our barn, burning four horses, harness, car and what grain, hay and small tools there were in it. We had a bad set-back. We know what those long, days mean from daylight to dark, but we are going to stay with farming till better things are accomplished. I read Miss J. E. M.'s scripture about the white collared men. It's all right, but I could never earn a farm if I had to furnish a wife with those silk socks rolled up

at the top, and otherwise.-H. L. R., somewhere in Michigan.

R., somewhere in Michigan. Your philosophy is all right, my 17-year-old farmer friend. Stick to the plain, homely truths and customs of life and you'll who out. The man who would succeed on the farm or anywhere else must get along for a while without silk shirts and his wife without silk stock-ings, rolled or otherwise. Glad you're going to stick to farming. There's money in farming if you learn how to get fi out, and the farmer of tomorrow will not have so hard a row to hoe as the farmer of yesterday. When you are riding that tractor dreaming of the days when you will be lord and master over many rolling acres of your own and get to thinking about things, get your thoughts down on paper and send them to this department. I like farmers who think and aren't afraid to tell their thoughts. Thinking develops brain pow-er and brain power is needed as much as brawn on the twentieth century farm.--

INTEREST RATES

BOLISH interest rates," Says A comrade Wm. R. Smalley of Wexford county. I have read many and many a copy of different farm papers and the few brilliant words by friend Smalley contain more sense and logic importance to the farmer than all the agricultural publications combined that I have ever read.

You good neighbors who would like to start a discussion on taxes in the M. B. F. take notice what Mr. Smalley says in the current issue of the 17th inst. and you will realize why we must toil and sweat from five to eight and longer to support a lot of parasites Come again, Brother Smalley, but

be careful, there are good men in (Continued on next page)

THE MICHIGAN BUSINESS FARMER

RUIT and ORCHAR EDITED BY FRANK D. WELLS

NOTES AND COMMENTS

THE INDICATIONS are that there will be a large planting of grape vines this year. In the Michigan grape district the vineyard area will be considerably enlarged, but more significant is the quantity of nursery stock grown for the de-mand in other localities. It seems as though \$10 a ton for grapes has made people crazy. There is no need to say that "go There is no need to say that "who

There is no need to say that "go slow" is good advice just now. Who will heed? Not those who should. The wise ones shake their heads. Very well for those who are able to take the chances, but those who are planting a vineyard to pay off the mortgage had best think twice. The demand for the fruit has been greatly increased during the past two years, but will it keep up with the production three years hence, when these new vines come into training? That is something to think about.

think about. Michigan takes the lead in the production of small fruits, but even at that there is not enough to sup-ply the demand. Strawberries, rasp-berries, blackberries, grapes. Those who recall the difficulty to get them last summer need not be told that there was a shortage. It was not altogether the unfavorable season that was to blame. A full crop that was to blame. A full crop would not have sufficed. Now while so many are planning to set out grapes, would it not be wise to give more attention to the other small fruits? The automobile has revelue fruits? The automobile has revolufruits? The automobile has revolu-tionized the marketing of such pro-ducts. Fifty miles are as nothing for the city man with an auto, when the roads are good. But the drive makes him, hungry. It makes the family hungry. The whole load, from the grandmother to the baby, is ready to robble anything edible is ready to gobble anything edible in the shape of fruit. Set out a bushel of strawberries along one of bushel of strawberries along one of the leading highways and see how long it will remain! So it goes from spring 'till fall. Many in the cities now get a large portion of their fruit direct from the producers and the number is on the increase. So the number is on the producers and they are solving the problem of the middleman to the profit and satis-faction of both producer and con-

sumer. Why are there so few currents grown? There is no serious diffi-culty in growing them. They are easily cultivated and the currant worm, the most bothersome enemy, can be controlled by a little spraysumer. ing. Currants are productive and are nearly always in demand. The bushes soon come to a bearing age nearly always in demand. The bushes soon come to a bearing age and with cultivation should be good for many years. The fruit is not in favor for dessert on account of the acid, but what is better for jelly, except, perhaps the crab apple? Then, too, it puts an edge on milder fruits when mixed with them for pies. "Where can I get currants?" How many times the question was asked last summer. How often the answer was, "I don't know." Those who are planning to grow fruit might well consider the currant. There are not many varieties of the currant. The large red kinds are most in demand, though some of the smaller varieties are the best in flavor. White currants are mild-er than red. When the two are mixed they make a pretty table dish. The old red Dutch is small, but very productive and has no superior for

mixed they make a pretty table dish. The old red Dutch is small, but very productive and has no superior for jelly. It's size is against it for market, but those who know what good fruit is, do not refuse the red Dutch. For the home garden the Dutch, both red and white, have many friends, since their quality comes before size. comes before size.

ANSWERS TO CORRESPONDENTS Can the Business Farmer tell us what to do with our plum trees? They blos-som full enough, but when the fruit is about as large as a bean it drops off. The result is few plums or none at all.--R. P. F., Redford, Mich.

A satisfactory answer to this question would require considerable more data than is given here. There might be several reasons for such behavior.

One reason why fruit drops pre-

maturely is weak or imperfect pollination. Some of the American varieties are poor self-pollinizers, while the Japs are mostly self-sterile. The Burbank is the Japanese variety that has been most extensively planted of any during recent years, and ed of any during recent years, and has probably been the cause of more disappointment than have all other kinds added together. It should be planted with some other variety near it, the abundance is good for the purpose, but any kind that blossoms with it will do. Per-hans some hyperbeas of wild plume haps some branches of wild plums, stood in a barrel of water near the trees when in blossom, will serve the purpose.

Lack of fertility might be a reason for the failure in the crop, but in that case there would probably be few blossoms. An abundance of bloom would indicate that the trees were not starving.

While the soil may be fertile the available food may not be well bal-anced. Too much nitrogen would cause a growth of top at the expense of fruit. Horse manure alone may injure plums and peaches. Hen manure is strong in nitrogen, but it is balanced with potash, so is excel-

lent for plums. Possibly there are not bees enough to work on the blossoms, in which case the pollination might be weak or imperfect. In many localities bees have become scarce and fruit trees suffered in consequence.

Is the ground where the trees stand lower than the surrounding area, so as to form a little pocket? In that case the late spring frosts may have done the mischief, when trees near by on higher land have escaped.

The curculio can be trusted to do its share of mischief, but its work is more in evidence later in the season. This insect is out early and at first eats the leaves. Spraying with arsenate of lead, one pound of powder to 50 gallons of water, ap-plied just before the blossoms open and again after the petals have fal-len, will kill most of the beetles before they have laid, their eggs.

SEEDLING

I have a black sweet cherry which bears fruit of unusual size and quality. Can I graft some little seedling sweet cherry trees from this tree, and when should it be done?—D. M. N., Washing-ton Mich. ton. Mich.

Possibly a sweet cherry can be grafted, but we have yet to find the man who has successded at it. Cherman who has successful at it. Other ries are propogated by budding on seedling stock, mostly a wild tree called Mahaleb, through another called Mazzard, is also used. Nurs-erymen frequently grow trees for a customer from buds which he furnishes.

Am sending \$3.00 for five-year subscrip-tion to the M. B. F. being a continuation of my subscription to the best farmers' paper in the U. S. Trusting the managers will be long spared to fight the good fight for the farmers, and in doing this they benefit mankind.—James Bell, Al-lona County, Mich.

I wish to say that you are the farm-er's best friend and that you sure fight his battles fearless, and my wish is that every one of our six million farmers could see the light and send in a year's subscription. It would sure be the best investment they ever made. Keep up the good work. J B. Train, Newaygo County, Mich.

INTEREST RATES

(Continued from page 8)

jails and penetentaries who have spoken true words like yours. Wall Street will get you if you don't watch out.

Congratulations to the Business Farmer on showing enough backbone to print said article. Look out or Wall Street will get you, teo.-Norman Sauer, Livingston County, Michigan.

Nope, we aren't afraid of Wall Street. We believe in truth and facts and so long as we have them on our side, we'll keep plugging along without fear or favor. The thing that we and our readers ought always to be careful of is not to take a stand which we cannot defend from every legitimate and sensible standpoint. As long as we stick to moral principles and truths we are safe from the attacks of our enemies.—Editor.

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THE MICHIGAN BUSINESS FARMER

January 21, 1922



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(Continued from last week) CHAPTER THIRTEEN

IN MANY years there had not been such a storm in all the Northland as that which followed swiftly in the trail of the first snows that had driven Neewa into his den the late November storm of that year which will long be remeembered as Kusketa Pippoon (the Black Year), the year of great and sudden cold, of starvation and of death.

It came a week after Miki had left the cavern wherein Neewja was sleeping so soundly. Preceeding that, when all the forest world lay under its mantle of white, the sun shone day after day, and the moon and stars were as clear as golden fires in the night skies. The wind was out of the west. The rabbits were so numerous they made hard floors of the snow in thicket and swamp. Carfbous and moose were plentiful, and the early cry of wolves on the hunt was like music in the ears of a thousand trappers in shack and teepee.

With appalling suddenness came the unexpected. T warning. The day There was no had dawned warning. The day had dawned with a clear sky, and a bright sun followed the dawn. Then the world darkened so swiftly that men on their traplines paused in amaze-ment. With the deepening gloom came a strange moaning, and there was something in that sound that doom. It was thunder. The warndoom. It was thunder. The ing was too late. Before ing was too late. Before men could turn back to safety, or build themselves shelters, the Big Storm was upon them. For three days and three nights it raged like a mad bull from out of the north. In the living open barrens no living could stand upon its feet. creature The forests were broken, and all the earth was smothered. All things that breathed buried themselves—or died; for the snow that piled itself up in windrows and mountains was round and hard as leaden shot, and with it came an intense cold.

On the third day it was sixty degrees below zero in the country between the Shamattawa and Jackson's Knee. Not until the fourth day did living things begin to move. Moose and caribou heaved themselves up out of the thick covering of snow that had been their protection; smaller animals dug their way out of the heart of deep drifts and mounds; a half of the rabbits and birds were dead. But the most terrible toll was of men. Many of those who were caught out succeeded in keeping the life within their bodies, and dragged themselves back to teepee and shack. But there were also many who did not return—five hundred who died between Hudson Bay and the Athabasca in those three terrible days of the Kusketa Pippoon.

In the beginning of the Big Storm Miki found himself in the "burnt" country of Jackson's Knee, and instinct sent him quickly into deeper timber. Here he crawled into a windfall of tangled trunks and tree-tops, and during the three days he did not move. Buried in the heart of the storm, there came upon him an overwhelming desire to return to Neewa's den, and to snuggle up to him once more, even though Neewa lay as if dead. The strange comradeship that had now grown up between the two—their wanderings together all through the summer, the joys and hardships of the days and months in which they had fought and feasted like brothers—were memories as vivid in his brain as if it had all happened yesterday. And in the dark windfall, buried deeper and deeper under the snow, he dreamed. He dreamed of Challoner, who

He dreamed of Challoner, who had been his master in the days of his joyous puppyhood; he dreamed of the time when Neewa,

the motherless cub, was brought into camp, and of the happenings that had come to them afterward; the loss of his master, of their strange and thrilling adventures in the wilderness, and last of all of Neewa's denning up. He could not understand that. Awake, and listening to the storm, he wondered why it was that Neewa no longer hunted with him, but had curled himself up into a round ball, and slept [a sleep from which he could not rouse him. Through the long hours of the three days and nights of storm it was loneliness more than hunger that ate at his vitals. When on the morning of the fourth day he came out from under the windfall his ribs were showing and there was a reddish film over his eyes. First of all he looked south and east, amd whined.

Through twenty miles of snow he travelled black that day to the ridge where he had left Neewa. On this fourth day the sun shone like a dazzling fire. It was so bright that the glare of the snow pricked his eyes, and the reddish film grew redder. There was only a cold glow in the west when he came to the end of his journey. Dusk had already begun to settle over the roofs of the forests when he reached the ridge where Neewa had found the davern. It was no longer a ridge. The wind had piled the snow up over it in grotesque and monstrous shapes. Rocks and bushes were obliterated. Where the mouth of the cavern should have been was a drift ten feet deep.

Cold and hungry, thinned by his days and nights of fasting, and with his last hope of comradeship shattered by the pitiless mountains of snow, Miki turned back over his trail. There was nothing left for him now but the old windfall, and heart was no longer the heart his of the joyous comrade and brother of Neewa, the bear. His feet were sore and bleeding, but still he went on. The stars came out; the night was ghostly white in their pale fire; and it was cold—terribly cold. The trees began to snap. Now and then there came a report like a pistol-shot as the frost snapped at the shot as the frost snapped heart of timber. It was thirty degrees below grees below zero. And it was growing colder. With the windfall as his only inspiration Mikl drove himself on. Never had he tested his strength or his endurance as he strained them now. Older dogs would have fallen in the trail or have sought shelter or rest. But Miki was the true son of Hela, his giant Mackenzie hound father, and he would continue until he triumphed-or died.

But a strange thing happened. He had travelled twenty miles to the ridge, and fifteen of the twenty miles back, when a shelf of snow gave way under his feet and he was pitched suddenly downward. When he gathered his dazed wits and stood up on his half frozen legs he found himself in a curious place. He had rolled completely into a wigwam-shaped shelter of spruce boughs and sticks, and strong in his nostrils was the smell of meat. He found the meat not more than a foot from the end of his nose. It was a chunk of frozen caribou flesh transfixed on a stick, and without questioning the manner of its presence he gnawed at it ravenously. Only Jacques Le Beau who lived eight or ten miles to the east, could have explained the situation. Miki had rolled into one of his trap-houses, and it was the baft he was eating.

There was not much of it, but it fired Miki's blood with new * life. There was smell in his nostrils now, and he began clawing in the snow. After a bittle his teeth struck something hard and cold. It was steel—a fisher trap. He dragged it up from under a foot of snow, and

with it came a huge rabbit. The snow had so protected the rabbit that, although several days dead, it was not frozen stiff. Not until the last bone of it was gone did Miki's feast end. He even devoured the head. Then he went on to the head. Then he went on to the windfall, and in his warm nest slept head. until another day.

That day Jacques Le Beau-whom the Indians called "Muchet-ta-aao" (the One with an Evil ta-aao" (the One with an Evil Heart)-went over his trapline and rebuilt his snow-smothered houses

and reset his traps. It was in the and reset his traps. It was in the afternoon that Miki, who was hunting, struck his trail in a swamp several miles from the windfall. No longer was his soul stirred by the wild yearning for a master. He sniffed, suspic-iously, of Le Beau's snowshoe tracks and the crest along his spine tracks and the crest along his spine trembled as he caught the wind, and listened. He followed cautlously, and a hundred yards flarther on came to one of Le Beau's kekeks trap-shelters. Here too, there or was meat-fixed on a peg Miki reached in. From under his forepaw came a vicious snap and the steel jaws of a trap flung sticks and snow into his face. He snarled, and for a few moments he waited, with his eyes on the trap. he streiched himself until Then he he reached the meat, without advancing his feet. Thus he had discovered the hidden menace of the steel jaws, and instinct told him how to evade them. the

For another third of a mile he followed Le Boau's tracks. He sensed the presence of a new and thrilling danger, and yet he did not An impulse turn off the trail. which he was powerless to resist drew him on. He came to a second trap, and this time he robbed the bait-peg without springing the thing which he knew was concealed close under it. His long fangs clicked as he went on. He was clicked as he went on. He eager for a glimpse of the m beast. But he did not hurry. manthird, a fourth, and a fifth trap he robbed of their meat.

Then as the day ended, he swung westward and covered quickly the five miles between the swamp and his windfall.

Half an hour later Le Beau came back over the line. He saw the first empty kekek, and the tracks

in the snow. "Tonnerrre! a wolf!" he exclaim-ed. "And in broad day!"

Then a slow look of amazement rept into his face, and he fell upon his knees and examined the tracks. "Non!" he gasped. "It is a dog! A devil of a wild dog—robbing my

traps!' He rose to his feet, cursing. From He rose to his feet, cursing, From the pocket of his coat he drew a small tin box, and from this box he took a round ball of fat. In the heart of the fat was a strychnine capsule. It was a poison bait, to be set for wolves and foxes.

Le Beau chuckled exultantly as he stuck the deadly lure on the he stuck the usad, end of the bait-peg. "Ow, a wild dog," he growled. "Ow, taken him. To-morrow he

"I will teach him. will be dead."

On each of the five ravished baitpegs he placed a strychnine cap-sule rolled in its inviting little ball of fat.

CHAPTER FOURTEEN.

THE next morning Miki set out again for the trapline of Jacques Le Beau. It was not the thought of feed easily secured that tempted of feed easily secured that been a him. There would have been a greater thrill in killing for him-self. It was the trail, with its smell of the man-beast, that drew bim like a magnet. Where that him like a magnet. Where smell was very strong he w to lie down, and wait. Yet wanted with his desire there was also fear, and a steadily growing caution. did not tamper with the first kel He nor with the second. At the third Le Beau had fumbled in the placing of his bait, and for that reason the little ball of fat was strong with the scent of his hands. A fox with the scent of his hands. A fox would have turned away from it quickly. Miki, however, drew it from the peg and dropped it in the snow betweeen his forefeet. Then he looked about him, and listened for a full minute. After that he licked the ball of fat with his tongue. The scent of Le Beau's hands kept him from swallowing.

it as he had swallowed the caribou meat. A little suspiciously he crushed it slowly between his jaws. The fat was sweet. He was about to gulp it down when he detected another and less pleasant taste. another and less pleasant taste, and what remained in his mouth he spat out upon the snow. But the acrid bite of the poison re-mained upon his tongue and in his throat. It crept deeper-and he caught up a mouthful of. snow and swallowed it to put out the burn-ing sensation that was crawling nearer to his vitals.

Had he devoured the ball of fat as he had eaten the other baits he would have been dead within a quarter of an hour, and Le Beau within would not have gone far to find his body. As it was, he was be-ginning to turn sick at the end of the fifteen minutes. A premonition of the evil that was upon him drew him off the trail and in the direction of the windfall. He had gone only a short distance when suddenly his legs gave way under him and he fell. He began to him and he fell. He began to shiver. Every muscle in his body trembled. His teeth clicked. His eyes grew wide, and it was impos-sible for him to move. And then, there like a hand throttling him, came a strange stiffness in the back of his neck, and his breath hissed chokingly out of his throat. The stiffness passed like a wave of fire through his body. Where his muscles had trembled and shivered a moment before they now became rigid and lifeless. The throttling grip of the poison at the base of his brain drew his head back until his muzzle was pointed straight up to the sky. Still he made no cry. For a space every nerve in his body

was at the point of death. Then came the change. though a string had snapped, the horrible grip left the back of his neck; the stiffness shot out of his body in a flood of shivering cold, and in another moment he was twisting and tearing up the snow in mad convulsions. The spasm lasted for perhaps a minute. When Miki . was it was over panting. Streams of saliva dripped from his jaws into the snow. But he was alive. Death had missed him by a hair, and after a little he staggered to his feet and continued

on his way to the windfall. Thereafter Jaiques Le Le Beau might place a million poison cap-sules in his way and he would not touch them. Never again would he

Two days later Le Beau saw where Miki had fought his fight with death in the snow and hit heart was black with rage and disappointment. He began to follow the footprints of the dog. It was noon when he came to the windfall and saw the beaten path where Miki entered it. On his knees he peered into the cavernous depths —and saw nothing. But Miki, ly-ing watchfully, saw the man, and he was like the black, bearded monster who had almost killed him with a club a long time And in his heart, too, there ago. Was disappointment, for away back in his memory of things there was al-ways the thought of Challoner ways the thought of Challoner-the master he had lost; and it was never Challoner whom he found when he came upon the man smell. Le Beau heard his growl, and the man's blood leapt excitedly as and he rose to his feet. He could not go in after the wild dog, and he could not lure him out. But there was another way. He would him out with fire! Deep back in his fortress, He would drive

heard the crunch of Le Beau's feet in the snow. A few minutes later he saw the man-beast again peer-

"Bete, bete," he called half tauntingly, and again Miki growled. Jacques was satisfied. The windfall was not more than thirty or forty feet in diameter, and about it the forest was open and clear of undergrowth. It would be impos-sible for the wild dog to get away from his rifle.

A second time he went around the piled-up mass of fallen timber. On three sides it was completely smothered under the deep snow. Only Where Miki's trail entered was it open.

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ledge or consent being contrary to sound public policy, harmful to the honor and dig-nity of the Senate, and dangerous to the perpetuity of a free government, such excessive expenditures are hereby severely condemned and disapproved."

It is not within the realm of reason that Mr. Newberry can ever acquire the dignity and influence which a member of the United States Senate ought to have, after such a stinging slap in the face. Michigan's senatorial representation has suffered long enough. Why perpetuate the farce for another three years? For the good of Michigan if not for himself, Mr. Newberry ought to resign and let the Governor appoint someone in his place who is free from the stigma of Newberryism.

Better Organization

THE MONROE County Farm Bureau has evolved a unique, and upon the surface what appears to be a most practical plan of organization. The plan is to have the executive committee made up of one representative from each co-operative association in the county.

Membership on the executive committee of the county farm bureau is commonly only incumbent upon one condition, that the committeeman be a member of the bureau in good standing. There are no requirements so far as business ability, experience and geographical location are concerned. Although care is usually taken to choose the members of the committee from different parts of the county, there is no set rule and it frequently happens that one section will be over-represented at the expense of another. The result is that difficulty is encountered in keeping the poorly represented sections interested in the affairs of the county organization. Under the plan adopted by the Monroe county bureau, every section of the county will be represented. More than that it will be represented by a man who is actually engaged in one of the primary activities for which the farm bureau came into existence.

A chain is no stronger than its weakest link. When weak co-operative units fail or lose money the whole body suffers in the public estimation. Co-operation in its highest sense means the protection and assistance of the weak. Therefore, every unit in the chain. of co-operation should be interested in every cther unit and contribute some of its own strength to fortify other, but weaker units. By bringing representatives of all co-operative units in a county together as the Monroe County Farm Bureau has done there is bound to be a mutual exchange of ideas which will 'e beneficial to all concerned. Co-operation has a tough road to travel the next few years and it is highly important that all co-operative units be closely welded by bonds of sym-; athy and mutual help. This is the aim, we take it, of the Monroe County Farm Bureau. The example is worthy of emulation in other counties.

Taxes

AS THERE, ever a year when a goodly majority of farmers did not kick about the size of their taxes? It's just as natural for some farmers to complain when they go to pay their taxes as it is for a rooster to crow when he gets up in the morning. Nature made them that way.

A WORD OF CHEER TO START THE NEW YEAR

NOR SOME unknown reason the December 31st issue of the Michigan Business Farmer did not come to me. I do not like to miss one issue of your splendid farm paper and if you have a paper of that date will be very thankful to you if you will please forward one to me. I have, in my life-time, taken sevme. I have, in my life-time, taken sev-eral different farm papers but I'll hand it to you for putting out the best farm paper I've ever taken. Wishing you and yours a happy, healthy and prosperous New Year, I am, yours for success."— Chas. Rathbone, Kent County, Michigan. me.

There have been years when farmers had no reason to complain. There have been other years when their tax grievances have been fully justified in every respect. The last three years are typical of the years when farmers have paid more taxes than they could afford to pay and without getting value received.

In an organized society taxes are necessary. Every man who enjoys the protection of organized society should pay something for the benefits. But under existing tax systems a great many pay nothing at all, a great many more pay too little in proportion to their ability to pay, and the rest pay more than they can afford to pay or ought to pay. The farmer is included in the latter class. While in other years he may have complained of his taxes, he did not find it a hardship to pay them. But for two years back taxes have become an enormous burden and worry to him.

Time was when the reduction of public expenditures and taxes was a matter of official choice. Today it has become a matter of pressing necessity. Last year thousands of farmers could not pay their taxes when due. This year the number has doubled. In every county of the state are many farmers whose taxes run into the hundreds of dollars and who haven't a cent with which to pay them. If their credit is good, they will add another mortgage to the future, raise the money, and pay their taxes. If it isn't good,-well, the reader knows, the rest.

Taxes on farm property must come down. Farmers can't pay them. To bring them down, township, county and state authorities must enter upon a rigid program of economy, and other systems of taxation must be devised. For the salvation of our farms and our homes the time has come when farmers and their champions must rise in their might and fight for a reduction in taxes. The Business Farmer has its coat off and its sleeves rolled up ready to take the lead. How many farmers are prepared to follow?

Grade Crossings To Go

S OME TIME ago the Business Farmer recommended editorially that all crossirgs on important highways be separated or protected by gates in order to lessen the ter-rific toll of deaths which result each year in this country from crossing accidents. It is gratifying to note that the bureau of public roads, of the U. S. Department of Agriculture, has embraced the same idea, and will wherever possible eliminate grade crossings on all highways built with federal aid.

An announcement from the Bureau says:

"Instead of grade crossings there will be constructed, wherever possible, in the future, either a bridge or an underpass where roadway and railway intersect. Important roads which now cross and recross railroad lines at grades hereafter will be located entirely on one side of the railroad, even though to do so may in-crease the cost of construction. The prime object of the department's policy to eliminate grade crossings on federal-aid roads is the saving of human lives. During the three years ending with 1920, according to the best records available to the department, 3,636 lives were lost at grade crossings in the United States and 10,644 persons were injured."

Pigs Is no Longer Pigs

A RMOUR & Company have announced that the method of determining hog values is undergoing a gradual but positive change. No longer will "any old kind of a hog" do. The preferences of the public will be given consideration and the hog breeder must produce an animal which will suit the public's fancy. The hog most in demand just now is that having the characteristics of the Berkshire, neither too fat nor too lean. Firmness of flesh, texture, intermingling of fat and lean, and the flavor are the four factors which determine quality. The first three essentials the hog breeder must provide. The packer will take care of the fourth. Adaptation of the breed to meet changing demands is no new idea. They do it in Denmark every little while. And the course of the Danish farmer is a pretty safe one to follow.

Parmer's Weekly Owned and Edited in Michigan

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

A Strange "Vindication"

HE FINAL seating of Mr. Newberry in the United States Senate has very little significance so far as the people of Michigan are concerned. Their estimate of Newberry methods was formed long before Mr. Newberry's trial and conviction at Grand Rapids and nothing has transpired in the interim to change it. The exclamations of approval which have emanated from some of the members of the old guard of the state over the seating of Newberry may help bolster up the Senator's courage but the country at large will make a mistake to accept them as the general sentiment of Michigan citizenry.

Mr. Newberry, we are told, hails the action of the senate as a "complete vindication." This is quite in harmony with the role which he has played from the start. His attitude has consistently been that of a child instead of a man of mature years. He denied all responsibility for the acts of his agents. He denied knowledge of the money spent and the methods employed to secure his nomination and election. While Michigan was seething in the hottest political campaign of years in which Mr. Newberry was one of the principals while the rest of the country looked on fully aware of the pork-barrel methods being Mr. Newberry was running employed, around with cotton in his ears and colored glasses over his eyes, quite oblivious of all that was taking place. According to his testimony he was nothing but an innocent, if willing victim, quite unused to political tactics, wax in the hands of his friends. We are led to marvel how shrewd business men and politicians could be induced, either by the bonds of friendship or the lure of money, to lend such enthusiastic support for so high a vosition to a man so unsophisticated and pliable as Mr. Newberry. has seemed to be throughout the entire course of his unfortunate political venture. His intelligence suffers still further in the minds of his constituents when he professes to find a single grain of comfort in the last chapter which has just been written. Though he may have convinced many that he was innocent of any wrong-doing in securing his seat he will have a more difficult task to convince them that he is qualified to occupy the seat now that it has been conceded to him.

A bigger and a shrewder man than Mr. Newberry would have long since silenced his critics and spared himself and family further humiliation by gracefully resigning his seat. But with his childlike persistency he has clung to his empty honors only to receive the severe censure of the body of which he is a part. In seating Mr. Newberry the United States Senate declared: "The expenditure of such excessive sums in behalf of a candidate, either with or without his knowJanuary 21, 1922



consumer Let us get to-gether, not only now bet for future business in the Fresh Fish line. I will effer for the next (60) sixty days: 125 Us Salted Herring in new keg at \$4.00 100 Ths. Salted Herring in new keg at \$4.00 25 Ib Salted Herring in Pails at . \$1.00 The packages alone cost me one-third of this amount. Fish are dressed either round or flat, please mention when endering Thioney refunded if not satisfactory.



And one how much I can as you on Old market Incerbators and Broodes. Nearly This of the the the the the the the Clay Conter, Neb, or varia and the the test storage. The the the test storage and the test storage. The test storage test storage the test storage test storage test storage the test storage test storage test storage the test storage test

OATS-"BURT'S HEAVYWEIGHT" Tost SS lbs per bu, Also Early SEED CORN Get our low price, samples and catalegue THEO. R. BURT & SONS, Molroso, Ohic,

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AIN'T IT AWFUL? EVERY ONCE'N a while or often-er, somebody busts loose in the papers about the awful prohibition laws, an' tells what a terrible thing it is to deprive men an' wo-men of the drink their souls need, an' their appetites crave. An' 'cause M. B. A. kinda stands up for the law some of the subscribers write law, some of the subscribers write sassy letters an' one or two has even quit takin' the paper 'cause it disagrees with their ideas—I came purty nigh sayin' their belief. Ne-body, no man or woman in full possession of their senses, believes that liquor in any form is a good thing. Neither does any one in his or by right mind believe that more liquing is bein' consumed under prohibition than was consumed when saloons waz runnin' wild. If this wuz true you wouldn't hear a word about the turrible Volsted law an' when you trace it down to the man who writes such articles as we often read we find it comes from some one who is either interested in the liquor business or one who thinks he can't get along without his customary drink. They'll tell you what a curse the law is but fail to mention any They'll tell of deaths caused by drinkin' some of the stuff sold for whiskey an' of course it's true-there's been a good many of 'em but bless you friends, that ain't the fault of the law-it's the violation of the law that causes trouble! If everybody obeyed the law there wouldn't be a death from whiskey substitutes in a hundred years

Of course we all know the law is in' violated every day-somebein' times by men appointed to enforce the law—many times by men from whom we expect better things. We also know that the law is against murder, robbery, adultery, gamblin', speedin' an' dozens of other things, are bein' violated every day, too, an' yet you don't hear anybod" shoutin' to have these laws repealed -oh, no! Such laws are all right an' proper-it's only the prohibition law that's wrong—our right to get drunk an' make beasts of ourselves our right to beat up our wives in a drunken frenzy, to deprive our children of the comforts of life? It takes away the source of untold profits from liquor makers and liquor sellers an' they whine an' holler like whipped pups, an' that's all the good it'll do 'em, too, 'cause the prohibition law is here to stay an' every effort to break it will only make it stronger.

It always makes me laugh to hear a man say there is more drunkenness now than when liquor was bein' sold openly, over the bar. In them days, not so long ago, right here in Battle Creek, you couldn't go a half a block on many of the streets, without meetin' from one to ten intoxicated men, an' you could meet some on any street. Now it's very seldom that an intoxicated man is seen anywhere in the city. There may be liquor sold here—I could not say there is not but if it is bein' sold in very large quantities it must heve a purty mild kick to it or else people lock themselves in their cellars when they drink it an' stay there 'till the effects are gone.

Now I want to make a bargain with some of the guys that's hollerin' so loud about the prohibition law an' here is the offer—you fellers git together an' think of every good thing whiskey, light wines or beer, has ever done for the women an' children of this country—or what it has done for the man who has a family to support—or any other man outside of the men who made an' sold the stuff. Write it all down—don't fail to think of every good thing the damable stuff has ever done—you'll need them all—then I'll jest think of a few things prohibition has done for women an' children—for the homes of this land an' for the men who has to provide for those homes, an' when we all get through thinkin' an' writin' it all down, then we'll get somebody to choose three or five judges an' let them decide which is best—saloons on every corner, sale of light wines an' beer, or strict prohibition thoroughly enforced. Cordially.—UNCLE RUBE.



LOOK to the comfort and welfare of your horses and mules if for no other reason than that they may work harder —pull more willingly and steadily. Have a Tapatco Stuffed Collar Pad for every work horse and mule you own. Its use will serve to safeguard their shoulders against galls, chafes or bruises.

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Tapatco Stuffed Collar Pads embody every desirable feature in pad construction. Their constant use is real economy. They cost so little and do so much that no one should work a horse or mule without them.



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Look for the wire staple with felt washer. It firmly grips hook to pad even though cover is weakened by sweat and long usage. This lengthens life of pad. It is the greatest improvement since we invented the hook. If this fastener is not found on any pad you buy, it lacks a most important feature.

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Greenfield, Ohio Canadian Branch: Chatham, Ontario



When Writing to Advertisers, Please Mention the Fact that Yon Saw it in the Michigan Business Farmer. It will Help Both of Us.

SALVATION

CALVATION, in it's real sense, is a matter of the body, soul and spirit. It is the concern of the present hour as well as of a future eternity. If we wish to be saved let us be saved now. Let us begin today to enter upon that finer order of life that is in harmonious vibration with the higher forces.

Then when we withdraw from the mortal plane, we shall be better fitted for the next plane on which we enter.

By the very nature of the human organism, man is connected with the entire universe by an intricate system of vibrations of influences of waves in the ether, of an enor-

mous array of the invisible. Dean Inge, remarks that, "Eternal life is not something future—it is now! I believe," he continued, "that if we dwelt on this aspect of eternal life—as a blessed state to be begun here and perfected here-after—we should find the doctrine more fruitful to ourselves and more credible to those we wish to influence." There is the traditional supposition, that death introduces the individual to perfect happiness or the reverse, this is no more true nor consistent than that a given birthday introduces the person to unallayed bliss or misery.

As all kinds of people live, so all kinds of people die and the mere fact of death is not in and of itself a transforming process spiritually. He who has not developed the faculties that lay hold on the ethereal life, who has lived within the imprisonment of the senses, not rising to the nobler intellectual state, is no more entirely detached from the alternations of sorrow and struggle than when here.

For the materialist, who has lived to self, a spiritual world, with an atmosphere strange and overpowering, with all that he clung to gone, with an environment that he has always turned from and a language he has never learned to would be retribution speak, enough."

Death is the portal thru which we pass to a condition more favor-able to the nature of the spiritual powers and no more to be that of on university study, or travel or any other gateway to new and enlarging interests. From The Adventure Beautiful by Lil-lian Whiting-Little, Brown & Co., Pub.

CAPITAL PUNISHMENT

CINCE the affair at Marquette capital punishment is again being talked of. There are two sides to the question. First the protection of society, second the salva-tion of the criminal which sometimes, if not generally, seems an impossible thing; many are born with the criminal instinct and it can neither be educated nor punished out of them, certainly death will not make angels of them. In putting them out of the way we might be considered as shifting our re-sponsibility, yet society should be pretected. It is a knotty problem. What do you say?

WHEW!

AVE JUST read your very interesting letter in the current number of "Pipp's Weekly." A few observations may not be un-

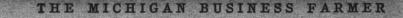
acceptable to you. All questions concerning human life, that need to be settled, may be settled by consulting the word of Ged. This word was written, pri-marily, for the church, the elect, the redeemed, and then for those who are earnestly seeking the way, the truth, and the life. It was not written for pagans who prefer paganism to gespel light.

The thoughts, motives, deeds of the unbelieving world are, there-fore, of no concern to the church.

Only a small minority of the women of America are christians, the rest are, virtually, pagan.

A pagan mether, being destitute of spiritual understanding, can not "bring her children up in the na-ture and admonition of the Lord." neither is she capable of understand-

ing her proper place in society. As a result of this pagan up-bringing the more theatres, dance halls and other questionable places





Dear Friends: A number of our readers have written to me ask-ing about the book called "The Adventure Beautiful", which is be-ing so much talked of. I wrote to the publishers and asked their permission to quote from it here and there, which request they read-ily assented to. The philosophy will be somewhat new to many but shocking to none and is essentially happy and optimistic.—Editor.

of amusement are the nightly re- a position in a nearby town which sorts of multitudes of American boys and girls in their early teens. A woman might better be at home taking care of her children than attending meetings of a political club, for if she is a pagan mother it doesn't make much difference where she is.

That the mothers of America have the training of the men of America is quite true, but, as I have said, the vast majority of American mothers are unfit to train their children.

Our godless homes and secular-ized schools produce crooked politicians and crooked politics-and we stand amazed! May we not hope for a female, pagan president?—Thos. N. Shan-

non.

And my letter to Pipp's Weekly was a plea for moderation and modesty in women active in politics.—Editor.

HASTY ACTION

'M VERY much interested in your paper, and certainly enjoy reading it, and have got many useful helps from it, as well as economical ones. I was employed as a housekeeper on a farm, tho, it was my first experience on a farm, I always looked after the house and expenses as tho they were my own, but I've a family of three children to support so sailing isn't as smooth. Their daddy passed away when my youngest was only six months old, but I've managed to keep them together now for four years. But I am interested "Unfaithfulness" and especially the writer who signed his name "Sorry Husband." in in 88

I have had some experience, myself, but I can sympathize with him for being sorry for his actions, for I mistrusted only too soon, which put me where I am now.

Now my story is different, but as I stated before, I was a housekeep-er, and met a man who seemed to be an ideal one, my folks thinking he was just as I did, but I only knew him a short time. When he proposed, I accepted, for a woman certainly has her experiences, acting as housekeepers, for so many are looking for so-called wives. This man furnished a 5-room bungalow two years ago, saying he was tired of rooming around, and oh, my but I was so happy. And he seemed also to be, and was good to to the children. When, after three months it seemed to me like I was having a dream, he told me he had

was booming, the I knew he had applied for the position, and he left, bidding us farewell, with the under-standing he would send for us.

Now that was a year ago last April, and I have never heard direct from him since. When I didn't hear from him within 10 days, and on tracing his tool box, I found he went to another place, so on advice of others I swore out a warrant for him.

I wasn't in need of money and my rent was paid for a month. I had a good supply in, but on the other hand he never treated me right, by telling me a falsehood on his leaving. Then again why did I let others talk me into getting out the warrants, for when I was asked what complaint I had, all I could say was he never went where he told me he was going. We heard from a party who had been with him that he had nothing against me, but when the police got on his trail, it made him angry, after only being gone 10 days, intending to send for me his next pay day, and he also had a house spoken for, to surprise me.

My advice should be to know what you are doing, before mis-trusting. I've got mysterious letters always referring to him, but I will not correspond with strangers. Whether he wants to become reconciled or wants grounds for a divorce, it is all a mystery to me. But peo-ple think I am so foolish for not condemning him, but there's no one I have ever seen can take his place with me, and my main wish is that he feels sorry for his actions, as the sorry husband.

You can publish what you want to of this, but really it seems a relief when I can write my thoughts, as I have no one out here and it does not pay to tire your employer with ones troubles. Thanking you with best wishes to the M. B. F. -Mrs. R. P.

By all means get into communication with him and see if you can get affairs straightened out. In a case like- this friends may be very much mistaken and cause much mischief. Use your own judgment and do not delay.—Editor.

CANNING MEAT

TN CANNING a large quantity of L meat by the cold pack process I made use of several recipes, any one of which is satisfactory. Since absolute cleanliness is essential it is well to begin directions with the

To simple things-where the violets

The touches of his hands have strayed

When the little brown thrush that

harshly cheered

As reverently as his lips have

Was dear to him as the mocking-

And he pitied as much as a man in

A writhing honey bee wet with

grew Pure as the eyes they were lik-ened to,

he gave.

prayed.

bird;

pain

rain-

____AWAY_____

I can not say, and I will not say That he is dead—He is just away! Mild and gentle as he was here When the sweetest love of his life

With a cheery smile, and a wave of the hand, He

has wandered into an unknown land.

And left us dreaming, how very fair It needs must be-since he lingers there.

And you-O, you, who the wildest yearn For the old time step and the

gla

Think of him as faring on, as dear In the love of There as the love of Here;

And loyal still as he gave the blows Of his warrior-strength to his country's foes.

Think of him still as the same, I

say; He is not dead—he is just away!

-James Whitcomb Rfley.

preparation of the utensils and jars to be used in the work.

For a family of two or three, the most economical containers are pint jars. I use ordinary glass fruit jars with screw tops and thick rubber rings. To insure perfect meat for summer use I buy new screw tops and can rubbers. Sterilization of the lids is accomplished by putting the clean tops into a kettle of clean, cold water, bringing the water to a boil and boiling about 15 minutes. They may boil longer if desired. Rubber rings should be washed and merely dipped into hot water. Boiling the rubber rings is not necessary.

To sterilize the jars I use a cop-per wash boiler with a tight cover. It should be carefully and perfectly clean. I place a clean wire rack in the bottom of the boiler and stack my jars in it laying them down on their sides; fill with cold well water to cover the jars, bring to a boil and boil about 30 minutes. In removing from this bath, first remove the boiler cover and allow the steam to pass off. I take out the jars one at a time with a long kitchen fork. They should be placed right side up on a folded towel rather than on the table, to avoid breaking. Put the table, to avoid breaking. Put the sterilized lids on top of the jars at once and the jars are ready for the meat

My first batch of meat is canned as follows: Cut the meat into pieces small enough to be easily packed into the jars, and at once put the raw meat into the jars, add a level (or scant) teaspoonful of salt. Fill all spaces with water, put on rub-ber, screw on lid, but do not seal. Place on the rack in the boiler in warm (not hot) water, allowing the water to come up to the neck of the jar, but not over the rubber; bring to a boil and boil steadily for five heurs. It will be necessary to add boiling water to the boiler from time to time as the water boils But remove the boiler lid away. for this only when necessary, and replace as soon as possible. At the replace as soon as possible. At the end of five hours, remove the beil-er cover to allow the steam to es-cape and after a few minutes take out the jars, one at a time, using a folded towel to protect the hands, Set the jars down on a felded cloth and very gently screw the lid down to seal. Do not invert to test, as the rubbers are very soft. the rubbers are very soft.

To be certain as to whether the jars are properly sealed examine the lids after the meat has become cold. The perfectly sealed jars will have a greatly depressed lid. Where the lid has not drawn down there should lid has not drawn down there should be a new lid and rubber put on and the jar should be again sterilized for an hour or so.

When the first batch has begun boiling I begin my second, using my second recipe which is perhaps the Taking several skillets or frybest. ing pans I brown the pieces of meat before packing them in the jars. This gives a different flavor to the canned gives a different flavor to the canned product. The seasoning and filing with water is as described in the first instance, but the jars may be kept hot and filled with boiling water just before placing in the cooker. No fat is used in the skil-lets as this would change the flavor. In canning the meat which con-tains bones I use the third recipe. By this plan we may can soup or

By this plan we may can soup or meat.

Brown the bony pieces, except those for soup, and place in large Brown the bony those for soup, and place in large kettles for boiling (I use a large new dishpan), and, covering with boiling water (for soup use cold water), boil gently until the meat slips from the bones. Remove the bones and pack the meat in the (hot) jars, put on rubbers and lids as before, but here it is necessary to keep the jars in the water bath only three and one-half hours, because of the previous cooking. The filling of the jars after putting in the meat, is done, not with water, but with the broth in which the meat has been cooking. All of this broth can be canned and sterilized with the meat three and one-half hours. Care in choosing the pieces to keep a good proportion of fat and lean is desirable, and this plan serves equally well with beef or with pork. I have been told that fish could be canned likewise, but I have never tried it.

There will always be a quantity

of fat which cozes out into the boller during the long cooking. The water should be poured out into some con The water tainer and allowed to cool as this fat will make excellent soap. The boiler should be washed and scalded between batches of meat. It is well to sterilize the jars one day and do the canning on the next. With one boiler two batches can be canned in a single day .--- "Farmer's Wife."

ORIGIN OF ST. VALENTINE'S

DAY MRS. A. G. M. has requested the information and as it may be interesting to others I will publish it

Saint Valentine was a bishop and martyr of the church. He was put to death at Rome in the year 279. Since that time a custom has grown up of choosing valentines on Feb. 14, the date of his death. This custom prevailed during the Roman Lupercalia, a festival at which each boy drew from a box a tablet in-scribed with the name of a girl to whom he was to be devoted for one year. From that custom has grown the modern one of sending valen. tines

Just what the connection is between the martyred bishop and the giving of the missives I was not able to determine.

It is an old belief that birds begin to mate on February 14, per-haps that is why they are so frequently used as a decoration.

CORRESPONDENTS' COLUMN .

A lady writes and asks for the address of Miss Z. B. R., of Ohio, who had a letter in the issue of Dec. 24. The lady wishes to write to our correspondent. If the address is sent to me I will forward it.

Mrs. Wm. E. F.—Braiding in. some simple design would be a pretty trimming for the pattern. One could even use a little hand stitching, darning or chais stitch. black silk braid put on in even rows is today in very good style. .

Mrs. B. R., of Fowlerville-Try Woman's Exchange, Adams Ave. E., or D. J. Healy Co., Woodward Ave., Detroit, Mich.

Mrs. J. E., Valley Center-Write

Does anyone have the words and music of the song, "If Your Heart Keeps Right?"

Dear Mrs. Jenney--We have taken the M. B. F. ever since it was printed, I believe. I enjoy the department for wo-men very much. I saw in the issue of Dec. 10, 1921, Mrs. G. W. P. request for a remedy to remove lodine and rust stains, For iodine, wet spots with cold water and hang by stove where heat will stoke it. (I hung my garment by oven door) if not all gone, repeat. For iron rust, cover spot with salt and moisten with lemon juice, place in sun. For mil-dew, wet goods and soap heavy with laundry soap, rub salt in and hang in such a soap heavy with aundry soap, rub salt in and hang in you all a Happy New Year.-Mrs. M. L. B.

Will some one please send recipe for Dutch cake or coffee cake made from bread dough?--Mrs. K. B.

WHAT COLORS MEAN

WHAT COLORS MEAN Yellow symbolizes the rays of the sun, and tends to cheerfulness. Red, brings to mind fire, blood, warmth. A little goes a long way. It is stimulating and therefore aggressive. Blue, suggests cold, ice. Sometimes depressing, but desirable in warm sur-roundings, because it is cooling. Green is noted for its freshness and restfulness.

Browns are warm, comforting, quiet-ing, conducive to tranquillity of that, as a "brown study." Gray is neutral and combines well with other colors. Black is depressing and should be used smarinely.

-Courtesy of Klenflax Linen Rug Co., Duluth, Minn.

Being one of your steady meaders and giving the Business Farmer a boost every chance I have, I am enclosing check to introduce my second new subscriber this month. I could not get along without this great business paper and look eager-ly for it in the mail box each Saturday. J. C. McNamora, Van Buren County, Mich.

restfulness.

sparingly.

Mich.

-AIDS TO GOOD DRESSING-FOR APPEARANCE, COMFORT AND ECONOMY



cents too close to your eyes-you will not be able to see the quality -the purity-the dependability of



In other words, don't be deceived by a few pennies — the cheapest baking powder in price is often the most expensive.

When you buy Calumet you know that it will produce pure, sweet and wholesome bakings. You know that you use less because it contains more than the ordinary leavening strength.

Buy it-try it-be convinced. A pound can of Calumet contains full 16 ounces. Some baking powders come in 12 ounce instead of 16 ounce cans. Be sure

you get a pound when you want it.

VAIGHT'S

HAM

1



CONDENSED

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Simply apply Wright's Smoke to meat with cloth or brush. Large \$1.25 bottle smokes a barrel of meat and gives de-licious flavor.

licions flavor. Wright'sSmoke fis a liquid mado by condensing smoke from se-lected hickory. Directions and information on curing and smoking meat with every bot-tle of Wright's Smoke.

64 BREEDS Most Profitable pure-bred ducks, geese, turkeys. Fowla, ergs, incubators at reduced prices. 29th year. Largest plant. Large valuable poultry book and catalog free. R. F. NEUBERT Co., Bax 831, Mankat

Wright's Ham Pickle is a scientific preparation for curing meat. Contains all the necessary ingred-ients except salt. Cures meat better, with less work and gives delicious flavor. Wright's Ham Pickle is sold by your druggist-guaranteed satisfactory or your money back.

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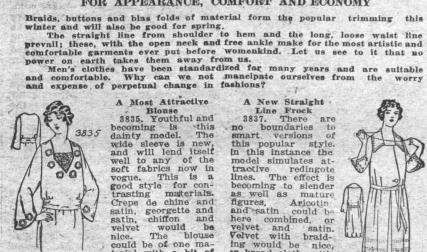
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Fine for windbreaks, hedges and lawn plant-ing. All hardy, vigorous and well costed. We able everywhere. Write for free at moder-book Beautiful Evergreen Trees at moder-ate prices. B. Mill Barsery Co., Ess. 285 Busies, M.







A Most Attractive Blouse 3835. Youthful and becoming is this dainty medel. The wide sleeve is new, and will lend itself well to any of the soft fabrics now in vogue. This is a good style for conwhen to any of the vorue. This is a good style for con-vorue. This is a good style for con-trasting materials. Grepe de chine and satin, georgette and satin, chiffon and velvet would be nice. The blouse could be of one ma-terial with a bit of Dace or net for trimming. As here shown Grepe de meteor was employed with ap-plied trimming of chiffon and velvet. The Pattern is cut in 7 sizes: 34, 36, 33, 40, 44 and 46 inches bust measure. A 38 inch size requires 2 3-4 yards of 36 inch material.

invisible

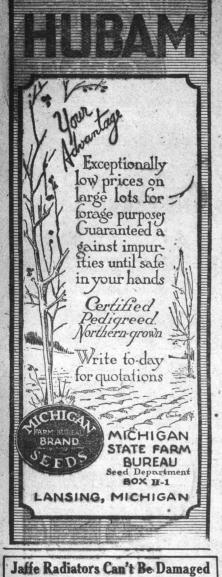
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16 (260)



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What Have You to Offer?

lhe Children's Flour

EAR CHILDREN: How swiftly DEAR CHILDREN: How could time passes. Here it is past the middle of January, this month will soon be gone. Then will come February, the shortest month in the year. And after that March and spring. It will not be many weeks before you will go to school some morning and one of your playmates will call to you, "I saw a robin on my way to school this morning." Or, maybe you will be the first one in your school to see it.

Did you know that there are more robins in this country than any other species of birds? It is true. All bird censuses prove this. Robin Redbreast is known all over the United States, from coast to coast, and, while many people think he is a pest because he eats small fruits, he is not, as I told you some time he is not, as I told you some time ago. He eats enough worms, bugs, and other enemies of fruits and crops to amply pay for the fruit he eats. I have a secret that I am go-ing to tell you. This bird we call a robin is not a robin at all. The real robin is a little red-breasted resident European bird about the size of a bluebird, and our robin is really a large migrating thrush. The really a large migrating thrush. The Pilgrims found it here when they came to this country and it reminded them of the English robin so they named it robin in memory of the little feathered friend in their old home country. And the name has stuck.—UNCLE NED.

OUR BOYS AND GIRLS

OUR BOYS AND GIRUS Dear Uncle Ned-Christmas is over and I suppose yeu had a good time. I spent a very enioyable day. We just began to take the M. B. F. and I fike it, and I enjoy mostly reading the Children's Hour. I am a girl 12 years old, my birthday is the first day of February, so I will soon be 13. Have I at twin brother or sister? I am in the eighth grade in school. I have gone to school every day and she drives the transportation bus to and from school. I have one sister and one dog. John Hann, I think the answer to your riddle is "Love." Will you please write to me and let me know if I am right? I would like to have some of the cousins of the M. B. F. write to care Lee E. Edict.

Dear Uncle Ned—I am a girl 16 years old and will be 17 the 25th of January. I wonder if I have a twin. I passed the eighth grade last year but I am not going to high school. I have one sister. Stella, to high school. I have one sister, Stella, age 14, and one brother, Adolphus, age 18. My mother is dead. She has been dead eight years and my sister and I keep house. We had a Christmas tree this Christmas and my brother took a picture of it. We are remodeling our house and are putting in a furnace and have our house wired for electric lights. We may have the lights in next summer. —Hilda Adolph, Yale, Mich.

Dear Uncle Ned—I am a giri 11 years old. My birthday is July 6. Have I a twin? I have one sister. We have a poid on our farm. We have lots of fun sliding on the ice. I have a pet lamb, her name is Mary. She gees everywhere I go. Santa Claus brought me a doll Christmas. I have lots of fun making dresses for her. From your neice.—Ruth Lauce, Grand Ledge, Route 3. Mich.

Dear Uncle Ned-I am a boy 11 years old and am in the fifth grade at school. I live on a 200-acre farm. My papa thinks M. B. F. is the best farm paper he takes. For pets I have three Shet-land ponies, one dog, rabbits and a cat. We also have cows, sheep, horses, hegs, turkeys, guineas and chickens. I would like to have some boys write to me.-Philip Watts, Tawas City, R. R. 2, Mich.

Dear Uncle Ned—I am a girl nine years old. I am in the second grade at, school. We live on a 135-acre farm and we have 3 horses, 8 cows, 3 calves, 86 sheep and 30 hogs. We have a Ford car. I have two sisters and one brother. I like to go to school. I like the teacher. There are 38 children in our school.— Leah Amos, Route 8, Owosso, Mich.

Dear Uncle Ned-I am a boy in the sixth grade at school. I am 11 years old. I have a mile and a half to walk to school. I have a brother and sister. Your friend-Russel Hansen. McBride, Mich.

Dear Uncle Ned-How are you getting along? I am a farm girl. I live on a twenty-acre farm. For pets I have one cat. I have 3 sisters and one brother. I am seven years old. I was born on the 4th of February, 1915. Have I a twin? We live a mile and a half from school. Your friend.-Maude Lurvella, Bronsen, Swartz Creek, Michigan.

Dear Uncle Ned-Having heard of the good luck of others writing to your club,

I thought I would write too and hope the cousins will write to me. I am thir-teen years old. My favorite sport is swimming.—Clayton Pequet, Box 57. Sid-naw, Mich.

Dear Uncle Ned-I am a little girl 9 years old and my birthday is the 7th of September. I am in the 3rd and 4th grades at school. I am much interested in my school work. We have a splendid teacher. I live on a farm. I have a sister and a brother. We received the M. B. F. as a Christmas present. I enjoy reading the Children's Hour. Your chum.-Vivian Grey, R. 2, Greenville, Michigan. Michigan.

Dear Uncle Ned—I am a girl 12 years old and in the seventh grade. I live on an 80-acre farm. I have one sister. She is 8 years old. We have 5 horses, 9 pigs and 12 head of cattle. For a pet I have. 2 cats and 2 kitteps. Your niece.— Cheryl Brownell, Rockford, Michigan.

Dear Uncle Ned-How are you? I am a boy 10 years old and in the 2nd grade. We have one cow and 2 horses. For pets I have a rabbit. My birthday is the 9th of February. I live on a twenty-acre farm. I have 4 sisters.—Mr. Robert A. Bronson, R 1, Swartz Creek, Michigan.

Dear Uncle Ned-I am a boy 11 years old. My birthday is October 5. I am in the 6th grade. I live on a farm of 80 acres. We have 4 horses, one colt, 10 head of cattle. 2 cows and 300 chickens. We get 6 and 7 dozen eggs a day. I play a violin. My sister plays a plano. I would like to have some boys and girls write to me. I promise to answer all letters I receive. Glenn Rykert, Will-iamston, Michigan.

Dear Uncle Ned-I am a farm girl. My birthday is the 10th of January, I will be 15 tomorrow. I would like to re-eelve letters from the girls and boys. I will answer all letters.—Bessie McPher-son, Akron, R. 3, Mich.

Dear Uncle Ned—I am a girl eight years old, I am in the fourth grade at school. I have blue eyes and my hair is light. I live on a 95-acre farm. For pets I have a cat and a kitten and a pair of hantams. I hope you all had a merry Christmas.—Louise Gibson, R. 5, Lapeer, Mich.

Dear Uncle Ned-I am a farm girl 12 Dear Uncle Ned—I am a farm girl 12 years of age and in the seventh grade at school. I have 11-2 miles to walk to school. I have one sister nine years old. She is in the fourth grade. My birthday is the 15th of January. I am 13 years old this month. I wish the Doo Dads would come back pretty soon. I think they are such funny people.—Cecelia Jel-inek, Sutton's Bay. R. 1. Mich.

Dear Uncle Ned-There is a pond back of our school and every day we go skat-ing and sleigh riding. We enjoy our-selves on the ice. The boys take us on their sleds and pugh us. We have lots of fun. We are joining the Red Cross in our school and also are going to join the Modern Health Crusaders and T am going to obey the rules. We have to do ten chores and also have to play thirty minutes.—Fikina Stosik, Kawkawlin, R. F. D., 2, Mich.

F. D., Z. MICH. Dear Uncle Ned—I am a little girl nine years old and live on an 80-acre farm in Ida township, Mohroe county. We have six cows, five horses, fourteen hogs and a nice flock of chickens. And for pets I have two dogs. Jack and Trixle, and a nice black kitty. I am in the fourth grade at school and like to go to school very much. I take lessons on the plano and play quite a few nice pleces. I have a little sister and her name is Netha May.—Nona E. West, Ida, R. R. 1, Mich.

Dear Uncle Ned-I am a girl ten years old. My birthday is the seventeenth of June. I go to school every day. I am in the fourth grade. I have seven sisters and one brother. For pets I have a rabbit, a cat and a dog. We have two horses, five cows and fifty chickens. I live on the banks of the largest inland lake of Michigan. I will close with a riddle: What is more afraid of a cock and a hen than it is of a dog and twenty men? Answer: Grasshopper. Your lov-ing niece.-Edna Hanson. Houghton, Lake, Mich.

Lake, Mich. Dear Uncle Ned-Here I am pack to my cousins and all again. How are you and all my cousins? I am fine. I go to school and like it fine. I am in the eighth grade and expect to write on ex-amination in the spring. There is snow on the ground now and it is quite cold today. My two greatest sports are skee-ing and skating, at which I have a very good time. I live about ten miles south-east of Big Rapids. I have read several letters from my friends, in the M. B. F. I have received several letters from my cousins and would like to receive more as I will surely answer them all. My birthday is February 14th. I will be 14. Have I a twin? I hope the Doo Dads will soon be back. They are such funny litle creatures. Wishing you and my cousins good luck and a very happy New Year. I remain, your loving miece.-Dorothy Scofield. Rodney, Mich.

OTHER LETTERS BECEIVED

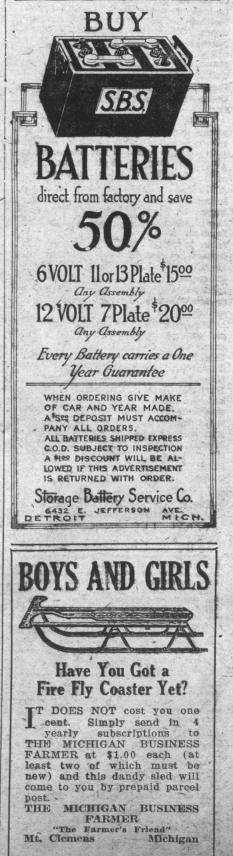
Susia Mae Bronson, Swartz Creek; Estella Krause, Brighton; Florence Gleason, Sidney; Alverta Stowe, Con-way; E. S., Kawkawlin, Mich.



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SHORT COURSES AT M. A. C. (Continued from page 2)

Four-weeks tractor courses start January 9, February 6 and March 6. Work will be given on all the dozen makes of tractors owned by the col-lege as well as with all types of gas ngines used on the farm. These tractor courses are becoming more popular each year.—C. E. Johnson, M. A. C. Correspondent.

ANNUAL CROP EMPROVEMENT . MIDIDT

RRANGEMENTS for the annual meeting and grain show of the A meeting and grain show of the Michigan Crop Improvement Association are rapidly shaping up and already promise to make the meeting druing Farmers' Week at M. A. C., one of the best yet held. Dean G. I. Christie, director of the Purdue Experiment Station, has been secured as one of the speakers, which means a rare treat for Michiwhich means a rare treat for Michi-gan farmers. Prof. A. C. Arny, of the University of Minnesota, will probably be chairman of the judging committee and scheduled as one of the speakers also L. Whitney Wat the speakers, also L. Whitney Wat-kins, president of the Crop Improvement Association and chairman of the State Board of Agriculture, will also appear on the program.

INTEREST OF BEET GROWERS IN TARIFF FIGHT (Continued from pages 3)

facturers. The farmers do not want acturers. The farmers to not want to lose money year in and year out. Neither do they want the manufact-urers. There is a common meeting place between the two, as we have often pointed out, where misunder-standings can be aired, where diffi-culties can be aired, where difficulties can be overcome and where the questions of prices and conditions can be adjusted to the satisfaction of all.

Great as are the investments in sugar factories in the United States they are not great enough to induce the United States congress to enact a tariff law which will put the price of sugar abnormally high to the And the American consumers. manufacturers know it. Their only hope at this time is the ac-tive support of the organized farmers who grow beets, and their farm journals. And if these help the manufacturers at this time to save their business, the latter will be ingrates and fools if they do not remember the farmers and seek their co-operation in the future instead of arousing their antagonism.

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We cannot speak authoritively up-on what congress will do with the sugar tariff but it is the opinion of this journal that the beet sugar in-dustry will get the protection which it seeks. To make doubly sure the Business Farmer will place the facts before congress and urge its readers before congress and urge its readers whother they grow beets or beans or what not, to help preserve the Michi-gan sugar beet farmers and the Michigan sugar manufacturers from the ruinous competition of the great landlords of Cuba and the Philipines.

DATES FOR FARMERS' ANNUAL "GET-TOGETHEB"

(Continued from page 4) in the Home Economics department. All the large morning meetings for the women will be held in the auditorium of opposite the Campau, because last year the women's meetings, during Farmers' Week, overflewed the lecture room in the Woman's building. These meetings will be held from 9:30 until 11:30. Only one speaker will appear on the program each morning so that there will be plenty of time after the speeches for questions and discussions and to make appoint-ments for the conference hour each speaker is to held later in the afternoon of the day she speaks. Dr. Caroline Hedger, practising physi-cian and child welfare specialist for the Elizabeth McCormick memorial fund of Chicago, will give a talk on Child Care and Nutrition on Wednesday morning. February 1st. (Continued from page 4)

Chicago, will give a tark on Child Care and Nutrition on Wednesday morning. February 1st. Dr. Hedger was born on a Kansas farm, dishwashed her way through col-lege, did relief work in Belgium during the war. She was on the government investigation of infant mortality and death of mothers at childbirth. Her talks will be illustrated with lantern slides. She is a very interesting speaker. Miss Martha Phillips of the home service department of the North Ameri-can Dye Corporation, will be the speaker tuesday, January 81st. She will speak on the home use of dyes, flustrating her talk with material especially prepared for this Farmer's Week pregram. Dr. Mitchell, of Battle Creek, will be here Thursday, February 2nd, and will

speak on the morning program. Her sub-bed will be natrition and diet. She will be here Thureday and Friday. She will bring with her an exhibition of rats used in experiments and will explain the problems that are being worked out with have been fed on a diet lacking in vita-mines, one on a diet lacking in vita-mines, one on a diet lacking in vita-mines, one on a diet lacking in tron, a group fed on a diet of incomplete pro-tion, and two litters of rats born of mothers whose diets were lacking in cal-cium and phosphorus. — The Barbara Bartlett, head of the Public Health Nursing at the University of Michigan, will speak Thursday morn-ing. Mrs. Bartlett has done much work in public health nursing in rural com-munities and was on the government in-vestigation in Montana of causes of in-fart mortality and death of mothers at childbirth. She will give a popular talk on what Home Nursing means to the more a community.

fant mortality and death of mothers at childbirth. She will give a popular talk on what Home Nursing means to the nural community. Dr. R. W. Bunting, secretary of the Dental College of the University of inchigan and vice-president of the State Dental Association, will give a talk, il-lustrated with lantern slides on how to care for children's teeth. This talk will be given Thursday morning. Every afternoon from 3:30 until 5 there will be: The conference with Miss Mariel Hop-Miss factors of the charge of Miss factors of the charge of Miss factors of the clothing of the home conomics department on nutrition. The conference with Miss Mariel Hop-Miss factors of the clothing of children or high school girls. The action of the clothing of children or high school girls. The A meat canning demonstration Miss Mariel Hopkins of the extension of the home economics department, have been in a state of milk, bread and orange priments with groups of rats. Three periments are being fed on an facquate diet of milk, bread and orange pine. Two rats are being fed on an facquate diet of bread and a proprie typinent to show that milk is an indesp avidely varied diet with milk, two are being fed the same diet without it. Milk is factor of experiment 3, an experi-ment to show that milk is an indesp avidely varied diet with milk, two are being fed the same diet without it. Milk is factor of experiment 3, an experi-ment to show the need for calcium and phosphorus in the diet of the other diet widely varied diet with milk, two are being fed the same diet without it. Milk is factor of experiment 3, an experi-ment to show the need for calcium and phosphorus in the diet of the mother dup is factor of experiment 3, an experi-ment to show the need for calcium and phosphorus in the diet of the mother dup is factor of experiment 3, an experi-ment to show the need for calcium and phosphorus in the diet of the mother dup is factor. Two rats are being fed corn is factor of experiment 3, an experi-ment to show the need for calcium and phos

Meat Canning Demonstration

Meat Cauning Demonstration Mr. Glenn Stewart, representative in Michigan of the Burpee Can Scaler Com-pany and of the National Pressure Cook-er Company, will give a series of demon-strations on the canning of meat and neutral

strations on the canning of meat and oultry. Miss Anna Bayha, of the department of household arts will give a demonstra-tion and hold a conference on clothing for children. A little boy and a little girt will be used as living models upon which to demonstrate good and bad fea-tures in children's dress. Miss Marion Tucker, of the household arts depart-ment, will have charge of the conference on appropriate dress for high school girt. **Hospitality**

nent, will have charge of the conterence or appropriate dress for high school girl. Henditing The hoped that the women of Michi women's building and the Home Econo-hydrone is building and the Home Econo-sistant-dean Kirby, and Mrs. Campbell of the extension department, will be at the poen to visitors. Dean Sweeney, As-sistant-dean Kirby, and Mrs. Campbell of the extension department, will be at the practice house to meet Farmers' Week guests. Men, as well as women, where and to inspect the house and it's equipment. Tea will be served every af-there and to inspect the house and it's dupment. Tea will be served every af-there will be nost welcome to rest and visit here and to inspect. The parlors of the Woman's building will be at the dis-posal of Farmers' Week guests as a place to rest, visit, and meet friends, man do the Moman's building where the dis-ment of the Woman's building where the dis-posal of Farmers' Week guests as a place to rest, visit, and meet friends, women may lie down and rest. There will also be a nursery where children may be fart to be cared for during lev-tures and conferences. Miss Marion the halls of the Woman's building where women from 3: sub that of the extension service and Miss Laudenbach, of the physical education department, will be pro-mation of the Woman's building to and group of senior girls will be pre-man ball serve meals in the first and source will serve meals in the first and source or the Woman's building under the Woman's building to the woman's building under the supervision of Miss parague and Miss Nelson, who have there of the Woman's building to the woman's building to the Woman's building to the the serve meals in the first and source of the Woman's building to the the during the supervision of the Woman's building under the sup Hospitality

FIFTIETH ANNUAL CATALOGUE

FIFTIETH ANNUAL CATALOGUE When one thinks of the vast business done by the great mall order houses in this country, it seems wonderful to think that the oldest of these great establish-ments has been in existence but 50 years. To celebrate this anniversary the Montgomery Ward Co. is issuing its fittleth anniversary catalogue for the spring and summer of 1922. This golden jubilee catalogue is unusually complete and is filled with new merchandise with prices based on the new low cost of raw material. It weights several dollars to pro-duce.

However, the coupon attached to the ad on page 11. In this issue will, if mailed to Montgomery Ward & Co., en-title any reader of The Michigan Busi-ness Farmer to receive this catalogue without cost and postage prepaid.—Adv.

SUCCESSFUL YEAR \$24,000 ADDED TO SURPLUS

The company has now finished its seventh season of success. has paid, since organization, about one million dollars in claims and has always maintained a cash reserve large enough to pay every claim upon the day of its adjustment and has never borrowed a dollar. Assets January 1, cash, real estate and office equipment, as follows:

Cash in Banks \$89,083.07 Office Building and Site..... 27,613.44 Office Furniture and Equipment.... 15,043.21

Total

\$122,739.72

The company has provided to comply with the request of the Michigan Insurance department that all mutual automobile insurance companies provide for a special liability reserve and will add \$2.00 to the fate for this purpose. This amount will be placed in the treasury without any expense as no agent will receive any commission on same. Many encouraging letters have been received at the home office for the splendid showing of the company and the effort made to create and maintain a sufficient surplus to meet all demands promptly. Automobile sales companies and garages as well as automobile own-ers are interested in dealing with a reliable company. Automobile owners realize that they also have a reputation to maintain as a safe risk.

Mr. Automobile Owner, if you are a careful and prudent driver, why not join this pioneer mutual that has stood the test for seven seasons? The company that owns its office building and equipment, has an organization of adjusters, agents and attorneys throughout the state to give you service in case of a serious liability claim, with an ample cash balance in the bank. If not insured, call on our local agent, or write

THE CITIZENS' MUTUAL AUTOMOBILE INSURANCE CO of Howell, Michigan



120 ACRES NUMBER ONE LAND AND best of buildings, fruit, timber. One mile to Diric Highway, station, church and school 30 miles from Detroit Dry oak body wood for male. R. W. ANDERSON, Clarkston, Michigan.

MAND-

THE MICHIGAN BUSINESS FARMER



BREEDERS DIRECTOR

(SPECIAL ADVERTISING RATES under this heading to henest breeders of live stock and poultry will be sent on request. Better still, the out what you have to effor, let us put it in type, show you a proof and tell you what it will cost for 13, 26 or 52 times. You can change as of ad. or copy as often as you wish. Copy or changes must be received one week before date of issue. Breeders' Auction Sales advertised to at special low rates: ask for them. Write today!) BREEDERS DIRECTORY, THE MICHIGAN BUSINESS FARMER, Mt. Clemens, Michigan.

SALE DATE

To avoid conflicting dates we will without cost, list the date of any live stock sale in Michigan. If you are considering a sale ad-vise us at once and we will claim the date for you. Address, Live Stock Editer, M. E. F., Mt. Clemens. Feb. 2 — Hampshire Swine, Lenawee County Hampshire Swine Breeders' Assn, Adrian, Mich. Feb. 14—Durces, J. C. Barney, Cold-water, Mich. Feb 15—Durces, Hillsdale, Co. Durce

water, Mich. Feb 15—Durocs, Hillsdale Co. Duroc Breeders' Ass'n., Hillsdale, Mich.

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COMPETENT AUCTIONEER to insuis your next sale being a success. Employ the one Auctioneer who can fill bill at a price in keeping with prevailing conditions. Satisfaction GUARANTEED or NO CHARG-ES MADE. Terms \$50.00 and actual ex-penses per sale. The same price and service to everyone. I specialize in selling Polands, Durocs, and Ohesters. Let me reserve a 1922 date for you. Write or wire, the

HARRY A. ECKHARDT Dallas City, Illinois

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SHOW BULL

Sired by a Pontiac Aagele Korndyke-Henger-veld DeKol bull from a nearly 19 lb, show cow. First prize junior calf, Jackson Fair, 1920. Light in color and good individual Seren months eld. Frice \$125 to make room. Hurry! Herd under Federal Supervision.

BOARDMAN FARMS JACKSON, MICH. Rolstein Breeders Since 1906

AM OFFERING LIGHT COLORED HOL. stein-Friedan bull 1 year old from 21,51 lb, dam and sire whose six mearest dams are 33.34 lbs, butter. Herd under state and federal app-errision. Oscar Wallin, Wiscogin Farm, Unionville, Mich.

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Breeders of Registered Holstein cattle and Berkshire Hogs.

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

BOY F. FICKIES Chesaning, Mich.

LAST ONE ADVERTISED SOLD We offer another calf, born Nov. 23rd, 1920, world champion breeding. Write for pedigree and information. HILLCREST FARMS KALAMAZ00 MICHIGAN

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\$ 5 0 BIG, HUSKY, HEALTHY, HOLSTEIN BULLS from Traverse State Hospital stock. Registered and ready for service. GEO. W. PUFFER, So. Boardman, Mich.

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

7 YEARLING BULL BARGAINS

Sired by Segis Korndyke De Nijlander, a 32 7b. son of a twice Michigan ribbon winner her dam, 29 1-2 lbs. Dams are daughters of King Segis Pontiac, a 37 lb. son of King Segis. Rec-ords 16 lbs. to 30 lbs. Priced st half value. 100 up. Federally tested June 10. Write for list ords 16 iba. We Federally tested sums of 00 up. Federally tested sums ALBERT G. WADE, White Pigeon, Mich.

Some GOOD YOUNG REGISTERED HOL-stein cows. Fair size, good color, bred to rood bulls and due from July to December. Most-ly from A. R. O. stock, prices reasonable and every one guaranteed to be exactly as repre-sented. M. J. ROCHE Pinckney, Mich.

SOLD AGAIN

Bull calf last advertised sold but have 2 more that are meetly white. They are nice straight fol-lows, sired by a son of King Ona. One is from a 17 lb. 2 yr. eld dam and the other is from a 20 lb. Jr. 3 yr. eld dam, she is by a son of Friend Hengeryel do Kol Butter Bey, one of the great hulls

20 lb. Jr. 3 7r. elu Priend Hengerveld De Kol Butter the great bulls. JAMES HOPSON JR., Owesso, 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 Pon-tac Lunde Korndyke Segis" who is a son of "King of the Pontacs" from a daughter of Pon-tac Clothide De Kol 2nd. A few bull calves for eale. T. W. Sprague, R 2, Battle Oreek, Mich.

Fairlawn Herd-Holsteins

J. F. RIEMAN Owner Flint, Mich.

A BLUE RIBBON WINNER BULL the 1921 Show Circuit. For sale at a low sc. Out of an A R O grandianghter of tiac Korndyke. Sired by our SENIOR SHOW BULL Model g Segis Glista 32.37 lbs. King GRAND RIVER STOCK FARMS COREY J. SPENCER, Owner 111 E. Main Street, Jackson, Mich. Herd under State and Federal Supervision.

NICE YOUNG BULL

bired by 35 lb. son of King of the Pontlacs. Dam over 20 lbs. First check \$100 gets him. Also a few heifers by same sire. BRANDONHILL FARM Ortonville, Michigan

JOHN P. HEHL 1205 Griswold St., Detroit, Michigan

SPLENDID CNA BULL CALF 1 Sept. 27, 1921 Sire, Filnt Maplecreat Pontiac; Dam, Imhy Beets De Kel Elze-who is milking nearly 60 Ds per day on lar feed. Yona Pontiac; Dan, vera who is milking nearly ou how regular feed. He is nearly white but built right. First check for \$60.00 gets him. Herd under State test for \$60.00 gets him. Herd under State test HOLSTEIN FRIESIAN PURE-BRED BULL calves, also good grade heifers; tuberculin tested herd. Prices are right. LARRO RESEARCH FARM, Box A North End, Detroit, Michigan.

FOR SALE TWO BULL CALVES, A HOL-tein and Durham about 3 months old. Both have heavy milking dams. Not registered. \$59 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 your next years bull is interesting. 24 lb dam 32 lb, Sire. J. M WILLIAMS, No. Adams, Mich.

HOLSTEIN BULL READY FOR SERVICE. Jow born Jan. 16, 1921 From a fine large show cow with record of 25.93 Bas. butter 7 days Sires dam 30 Bas. Nicely marked half white and half black Price \$200.1 also have s others. 1 born Nov 1st, 1921 from cow with record of 30.21 Bas. butter, 683.8 Ins. mills 1 bern Mar. 10, 1921 from cow with record of 20.23 he butter, 509.5 Bas. milk as a 2 year old. record of 20 23 has backet a 2 year old A KIBNEY, P. O. Brant, Mich. R. R. Station, St. Charles, Mich.

REGISTERED HOLSTEINS SALE A few young fresh cows \$300 each. Also two Helfer calves out of 33 lb sire and good producing dams \$100 each. Federal Accredwith the source of the second second

6. 1

FOR SALE THREE HOLSTEIN BULL martine old sired by a son of Beets Walker the stage of the World's Champion two year old baller which made 1102.69 lbs butter in one YOAT V J. CARPENTER, Cass Olty, Mich.

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

FOR SALE TWO HOLSTEIN BULL CALVES from 18 to 32 lbs. Nicely marked, and thrifty follows. No. 1 born March 11, 1921; No. 2 born Nov. 26, 1921. \$75.00 aplece takes them Pedigrees will be furmished. W. O. SEARS, Beulah, Mich.

FOR SALE, SHOW-BULL-CALF, FIVE mearest dams average thirty-two pounds but-ber. Size Carnation Champion. First check for \$125 gets him A Carnation bull will make you money Franklin Rasmussen, Greenville, Mich.

SHORTHORNS

REGISTERED SHORTHORN CATTLE, DU-Horses. Quality at the right price. CHASLEN FARMS, Northville, Mich.

MILKING STRAIN SHORTHORNS

Registered stock of all ages and both sex. Herd beaded by the imported bull, Kelmscott Vis-count 25th, 648,563. Prices reasonable. LUNDY BROS., R4, Davison, Mich. Shorthorn CATTLE AND OXFORD DOWN sheep. Both sex for sals. J. A. DeGARMO, Mulr. Mich.

FOR SALE MILK STRAIN DOUBLE STAM-dard Polled Shorthorn Calves ether rex, by Yorka Polled Duke No. 16884-545109 from accredited herd. PAUL QUACK Sault Ste Marle, R 2, Mich.

FOR SALE 3 SHORTHORN BULL CALVES Inspection invited. SONLEY BROS, St. Louis, Mich.

WATERLILY STOCK FARM offers 4 fine Reg. Shorthorn Bulls from 10 to 3 mo. old at bargain prices. THEODORE NICKLAS, Metamora, Mich. Shorthorn Bulls from 10 to 22

CENTRAL MICHIGAN SHORTHORN BREED-ers' Association offer for sale 75 head; all area, both milk and beef breeding. Send for new list. M. E. MILLER. See'y, Greenville, Mich.

For SALE-REGISTERED SHORTHORNS and Duroc Jersey spring pigs, either sex; two red bulls one 11 months and one 5 months old Beveral 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 Short-horns. Calved in September 1920. J. E. TANSWELL, Mason, Michigan.

UT pedigrees show a judicious mixture of the best blood lines known to the breed. Write t JOHN LESSITER'S SONS, Clarkston, Mich.

FOR POLLED SHORTHORNS Shropshire, Southdown and Cheviot rams write to L. C. KELLY & SON. Plymouth, Mich. FRANCISCO FARM SHORTHORNS AND BIG TYPE POLAND CHINAS

offering Three bulls ready for service. odon, Cansman, Emancipator breeding in bred for spring farrow. See them. POPE BROTHERS CO Mt. Pleasant Michigan

FOR SALE FOUR REGISTERED DURHAM buils from 8 to 10 months old. HENRY J. LYNCH, Mayville, Mich.

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

RICHLAND SHORTHORNS ATTENTION: We are sending five believes and five Bulls to the Association Sale at M A O Jaanary 13th, 1922, the best of Sociath blood Hnes, Atland this sale and buy cattle worth the monity

O. H. PRESCOTT & SONS, Tawas City, Mich. ATTENTION SHORTHORN BUYERS

If you want a real herd buil, or some good heliens bred to Perfection Heir, write me Batisfaction guaranteed. 8. H. PANGBORN & SOM 8 ml. east. Bad Axe, Mich.

nurses and shorthorns, BRED GILTS, yearlings and two year olds, few good bears, bull caif 8 weeks old, good oow with heifer calf, sevenal bred heifers. P. B. LUDLOW, Rolling Prairie, Ind.

MACK'S NOTES

AT THE ANNUAL MEETING OF BREEDERS AND FEEDERS

THE THIRTY-SECOND annual meeting of the Michigan Im-proved Live Stock Breeders and Feeders Association was held at the Michigan Agricultural College, at East Lansing, on Jaunary 10, 11 and 12. Program arrangement were in charge of George A. Brown and W. E. J. Edwards, of the animal hus-bandry department of the college. The leading speakers at the open sessions and the various breed meetnice leading speakers at the open sessions and the various breed meet-ings were as follows: Ex-Gov. F. O. Lowden, of Chicago; W. M. McFad-den, of Chicago; J. G. Brown, of In-dianapolis; H. Tenant, East Lan-sing; H. A. Moehlenpah, Milwaukee, Wis.; C. J. Fawcett, Chicago; E. C. Stone, Peoria, Ill.; Jacob DeGeus, Alicia, Mich.; Prof. O. E. Reed, Lansing; George J. Hicks, Saginaw; H. W. Wigman, Lansing; Charles Gray, Chicago; Dr. K. G. Suelke, Ithaca, N. Y.; W. J. Carmichael, Chicago; J. L. Tormey, Chicago. A report of the annual election of the various breed associations will appear in next week's issue of this paper.

paper.

paper. The Guernsey Cattle Club, of Michigan held its annual banquet at the Downey House on Tuesday evening; it would be very hard to beat the spiendid layout that was placed before the thirty or more men and women that graced the occasion with their presence. One of the things that was most appreciated by those present was the rich Guernsey cream and milk that was placed beside each plate.

the things that was most appreciated by those present was the rich Guernsey cream and milk that was placed beside each plate. Prof. O. E. Reed—"It is my belief that the Guernsey breeders of Michi-gan should, as far as possible, market their milk and cream in the villages and smaller eities near which their farms are located. The people who live in these villages and cities will be delighted to have this splendid milk and will be wil-ling to pay more for it than for the aver-age milk that they are using at the pres-ent time. Producers, who desire to get away from the delivery end of the busi-ness will find it easy to arrange with some man to furnish the bottles and other delivery equipment and take the milk, f. o, b, the farm." Gov. Alex Groesbeck—'I was proud, a few minutes age, when I heard one of your speakers refer to the great agri-tultural educators that have been given to the world by the Michigan Agricul-tural College. I am also proud of the work that the Michigan Depariment of Agriculture is doing for the farmers of this state; whenever this department asks for anything within reason, I shall do my level best to see that it gets it. More than that, I pledge you here to-night, that this administration will do everything in its power to make the Michigan Agricultural College he great-est institution of its kind in the world. T. F. S. Sotham—'It seems to me that it would be a good plan if we could vary our breeding practice so as to decrease the number of farmers engaged in the dairy business and increase the number of base by beef would it not increase the profits to be made by those still en-gaged in the dairy business? We are buying hundreds of calves from the "panhandle" every year that could be profits to be made by those still en-gaged in the dairy business? We are buying hundreds of calves from the "panhandle" every year that could be profits in Michigan.

profitably produced on some of the cheap-er lands in Michigan. Ex-Governor F. O. Lowden, of Illinois "I often wish that we could give every farmer in America an oracular demon-stration of the value and utility of pro-ducing pure-bred stock. Like some other things, farmers are slow to start in any new thing; they go well once they get away but it is hard to warm them up, You can do your splendid research work, here in the cellege, but you find it dif-ficult to get it all across to the farmer. Ed. Stone, of Peoria, Illinois, secere-tary of the National Hampshire Swine Association, addressed the Michigan Swine Breeders meet at the college on Wednesday. Mr. Stone is a live wire and he certainly did stir up things. He spoke in favor of cleser relations and more active co-operations between the producers of the various varieties of hogs. The wonderful increase in this country, during the last few years is credited largely to the splendid work of the national secretary.

HOLSTEIN SALE AT MT. PLEASANT On Wednesday, Januaray 4, a herd of more than fifty head of pure-bred Hol-stein-Friesian cattle was sold at public puction on Fertiland Farms, near Mt farm and its splendid cattle equipment, w T. Bandeen, having decided to give by the sast fourteen years. The sale, as it was carried out, was one of the water of pure-bred stock to the average farmer, that the writer has ever seen. With nearly every mature cow offered, two of her calves—a yearling and a suck-ling—ware led into the ring and sold HOLSTEIN SALE AT MT. PLEASANT

od of selling referred to, not only proved, conclusively, that the cows were regular breeders, producing calves that were faithful copies of their dams, but it also showed that these splendid cows had been earning an average of nearly \$60 per year for their owner in progeny alone. The auctioneer, Col. S. C. Forney of Mt. Fleasant, did splendid work at this sale and it was largely owing to his energy, enthusikam and never failing courtesy that the offering was saved from making a complete failure; the attend-ance was fairly good but those present titude and the bidding was slow. Ward Campbell, of Mt. Fleasant, was the cierk of record and F. J. Fishbeck, of Howell, was in the box. The highest priced cow prought \$206 and the highest priced cow to the state. The deligation of farmers and preders, from Middand, Mich., headed by

er, \$105. The top price paid for a caff was \$55. A large delegation of faithers and breeders, from Midland, Mich., headed by I. B. McMurfry, county agent of Midland county, were present and contributed to the success of the sale by their prompt and persistent bidding; about 15 head of the brest animals in the offering went to Midland. The name and addresses of the buyers are as follows; Nathan Coates, Ward Hancock, Leo Hancock, Glen Stowitz, G. E. Smith, Harvey Gilesple and J. Sager-land, all of Midland. Sam Forney, Rob-ert Schmidt, Charles Glavin, Joe McDon-aid, Albert Schmidt, Onit Beltink, Romeo Beltink, Earl Grace, Fred Reppert, James Brown, Joe McDonald from Mt. Pleasant. Hoyt & Son, Oscar Wolfe, E. R. Johnson and William Kipp of St, Louis, Myron Weeks of Shepherd and C. W. Hunter of Rosebush.

Hosebush.
SHORTHORN SALE AND SHOW
A shorthorn show and sale was held at the Michigan Agricultural College January 13, being one of the leading features of Breeders' and Feeders' week at the college. The exhibition classes were as follows: Cows calved before Jan. 1, 1919, two cows calved before Jan. 1, 1920; four heifers calved between Jan. 1, 1920; and Jan. 1, 1971; five heffers calved before Jan. 1, 1971; five heffers calved before Jan. 1, 1971; five heffers calved after Jan. 1, 1971; five heffers calved before Jan. 1, 1971; five heffers calved after Jan. 1, 1971; five heffers calved a fire Jan. 1, 1971; five & Sons, Clarkston; C, H. Preseoft & Sons, Tawas Offer, John Schmidt & Son, Reed City, Michisan Agrituntural College, East Lansing; Andy Adams, Litenheid; A, & F. Parimenter, Durane; W. J. Baled, DeWitt; O, E. Peth, Mason; M. B, Halstead, Orlon; W, E. Cumming, Coleman; Heyt Shister, Caledonia.

E. Cummings, Coleman; Hoyt Shister, Catedonia. The high sticiptified Temale was a year-ling helfer from the Prescott herd, which brought \$250, the buyer was O. A. Hoopengarner, of Bronson, Mich. The high est-priced bull came from the Les-siter herd and sold for \$200. The names and addresses of the purchasers are as follows: E. M. Bernbridge, Greenville; Barney Kaiser, Three Oaks; A. C. Mar-tin, Stanton; John Lewis, Croswell; Charles Bowditch & Son, Osseo; W. F. Hall, Jackson; W. E. Kelly, Ypsilanti; H. E. Hartwell, Williamston; William Bossey, Williamston; Elmer O. Bixby, St Johns; H. W. Lyon, Mason; Wilson Space, Grand Ledge; J. W. Phillips, Eaton Rapids; Frank Britcher, Haslett; Darl F. Smith. Bath; E. A. Wonsey, Shepherd; C. B. Kenyon, Grand Ledge; Charle Belaro, Tecumsch; Civde A. Fordham, Charlotte, and P. J. Wilson, Charlotte.

HORSE AUCTION AT THE M, A. O. An auction sale of registered Per-deron horses was held at the Michigan Agricultural College on Friday foreneon, January 13, under the management of R S. Hudson, of East Lansing. Thirty-three horses and colts were sold for prices, which in the aggregate, totaled \$6,990. The highest-priced animal, a Percheron brood mare from the college herd, was bought by A. M. Brown, of Jonesville, Mich. There were four stal-lions in the consignments and several weanling colts and yearlings. The auc-tioneers were John P. Hutton, of Lan-sing, and Andy Adams, of Litchfield. The names and addresses of the buy-ers were as follows: J. P. Wilson, Mason; William P. Rosse, Mt. Clemens; A. M. Brown, Jonesville; L. E. Freshour, Mason; William P. Rosso, Mt. Clemens; Dightson; A. E. Eash, Alto; John Sair, Jackson; A. E. Eash, Alto; John Sair, Jackson; Hug Carpenter, Lansing; A. HORSE AUCTION AT THE M. A. 0.



Rapids: Archie Pedden, Strathroy, Ontario, Canada; Frank Burnham, Belle-vue; M. T. Ketler, Grand Ledge; John Sharkie, Bellevue; W. B. Smith, Lansing; W. C. Knickerbocker, Lansing and H. A. Zimmerman, Charlotte.

Crop Reports

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The Experience Pool

Bring your everyday problems in and get the experience of other farmers. Questions ad-dressed to this department are published here and answered by you, our readers, who are graduates of the Scheol of Hard Knocks and who have their diptomas from the College of Experience. If you don't walt our editor's advice or an expert's advice, but just plein, by edyday bushness farmers' advice, send in your question here. We will publish one each week. If you can answer the other follow's question, please do so, he may ans-wer one of yours some day! Address Exper-lence Pool, care The Business Farmer, Mt. Otemens, Mich.

ATTACHMENT TO MAKE TRAC-TOR OF FORD AUTOMOBILE I wonder if any of our readers can give heir views on the attachment for Ford cars that is designed to make use of the car as a tractor. It is widely ad-vertised, and if practical, the experience of others is valuable. It makes a paper more interesting, anyway, for as a rule what interests one farmer interests many. -C. W. K., Pinconning, Mich.

COURSES FOR POWER FARMERS

VERYONE knows Detroit to be the seat of the automobile manufacture EVERYONE knows Detroit to be the seat of the automobile manufacturing industry of the world. It is logical, therefore, that a great automobile school should exist there, giving a complete, practical course of training. There are thousands of young men of Michigan who could, by attending such a school, greatly increase their earning power by becoming a complete, practical course for mediantic whether, they go into business for theme and their neighbors may be into business for theme are their exist a garage or eare for and course. The profits in these lines of business for theme whether, they go into business for theme are their earning and their neighbors may be into business. The profits in these lines of business may be and their neighbors may be and their neighbors may be and their neighbors may be and the school, 2261 Auto Michigan State Auto School, 2261 Auto School, News, which are mailed without cost or business, which are mailed without cost or business.

Herd headed by Bardell 31910, 1920 International Jr. Champion.
 Dr. G. R. Martin & Son, North Street, Mich.

PREMIUM BEEF PRODUCERS

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

REGISTERED ABERDEEN - ANGUS-BULLS, Heifers and cows for sale.

Heifers and cows for sale. Priced to move. Inspection invited. RUSSELL BROS., Merrill, Michigan

We certainly do enjoy each department of your paper. The longer we take it the better we like it. Keep it coming. E. E. Sizemore, Kalamazoo county, E.] Mich.

JSINESS FARMER	(263) 19
MILKING SHORTHORNS enough for ser- vice, tuberculin tested and at bargain prices. W. S. HUBER, Gladwin, Mich.	AYRSHIRES FOR SALE REGISTENED AYRSHIRE bulls and bull calves, helfers and helfer calves Also some choice cows.
Buy shorthorns now, 4th ANNUAL herd test without a reactor. Some bargain in buls, JOHN SCHMIDT & SON, Reed City, Mich.	Allo Some Choice cows. FINDLAY BROS., R 5. Vassar, Mich. RED POLLED
TWO REAL SHORTHORN HERD BULL'S FOR SALE 15 mo. old and sired by Into. Dainty Prince. W. W. KNAPP. Howell, Mich.	THREE YOUNG RED POLLED BULLS FOR asks. Sired by Cosy Ells Laddie. He tool the prize at all State Fairs. PIERCE BROS., Eaton Rapids, Mich., R 1
GUERNSEYS	25 RED POLLED CATTLE Registered. All ages. E. S. CARR, Homer, Mich.
FOR SALE REGISTERED GUERNSEYS Have two choice Bull calves shult months old, \$60 each Also herd, Bull ebnt years old, a. son of Langwifer King of the May, \$125. All May Rose breeding, VERN LAMBERT, Evart, Mich.	BROWN SWISS
GUERNSEY BULL & BULL CALVES from dams making large A. R. O. Records. Accredited herd, Write for particulars A. M. SMITH	FOR SALE OR TRADE Some of the best Brown Swiss bull calves in this country. Priced right, Will guar- netes them as I represent them or I will refund the money. A. C. KLOSS Tonta, Michigan.
FOR SALE, GUERNSEY BULL, 1 YEAR OLD. Write for particulars to ECHO LODGE FARM R. F. D. 2, Watervilet, Mich.	FOR SALE FIVE REGISTERED BROWN priced right. T. H. LOVE
GUERNSEYS OF MAY ROSE AND GLENWOOD BREEDING. No abortion, clean federal inspected. Their sires dam made 19,460.20 milk, 909.05 fat. Their mother's sire's dam made 15,109.10 milk 718.80 fat. Can spare 3 cows, 2 heifers and a beautiful lot of young bulls.	Howell, Mich., R. F. D. 3 SWINE
REGISTERED GUERNSEY BULL CALF for \$30.00. May Rose breating. PINE HILL FARM Howard City, Michigan	Large Type Poland Chinas Spring boars all sold. Fall pigs at bargain prices. Bred filts held
JERSEYS REG. JERSEYS HEIFERS 1 YR. OLD- by Majesty's Oxford Shylock 156,692 also young builts stred by Frölic's Master Pogis 177683, a grandson of Pogis 99th suil Söphie 19th's Tor- mentor, two great builts of the breed. Write for prices and pedigrae. GUY C. WILBUR, R 1. 'Refuting, Mich.	for public sale. Date will be an- nounced later. Watch this ad. A. A. FELDKAMP R. F. D. No. 2 Manchester, Mich.
DE OF OUR MAJESTY, BULLS WOULD IM. PRANK P. NORMINGTON, Ionia, Mich.	WALNUT ALLEY His Type Pointa Chinas, I have a few more of those by boned, blan backed, smooth added boars left. The kind that makes good at one- half their value. Come or write and let in tell you what I will do. A. D. GREGORY, Ionta, Wichigan.
JERSEY BULLS AND BULL CALVES shed by a son of Sophie 19th Tormentor. J. E. MORRIS & SON, Farmington, Mich. HEREFORDS	tell you what I will do. A. D. GREGORY, Ionfa, Michigan. EONARD'S BIG TYPE P. C. BOAR PIGS at weathing time, from Mich. Champion him \$25. with pediferee. Satisfaction guarentized. Call or write E. R. LEONARD, R S. St. Louis, Mich.
BEEF PRODUCERS! Michigan Produces the World's Best Beer at the EDwess Oost, Harse far better foeding Cattle Him you can buy, Grow Baby Beet when gains cost feast in them hou can buy, Grow Baby Beet when gains cost feast in the shrfink, bruises and toss	L. T. P. C. \$15-\$20-\$25 We are offering our 1991 fail crop of pies at the above prices. They are sired by Hart's Black Price and Right Kind Clan. F T HART, St. Lodfs, With.
BEEF CONTRACT	BIG TYPE POLAND CHINAS Spring pigs of both for sale at reasonable prices. Sired by Orange Clansman 2nd., litter brother to Michigan 1920 Gr. Champion. Also fall pigs. Write for prices. Immuned by double treatment. MOSE BROS., St. Charles, Mich.
Solves your problem—insures your success. A air intelligent, satisfying system evolved from by years consolentious service to Américan Cat- ite industry by three generations of sothams. BET THE FACTS Write now or wire. Address T. F. B. SOTHAM & SON (Cattle Bushess Established 1835) hone 250. SAINT CLAIR, MICHIGAN	GLADWIN COUNTY PURE BRED LIVESTOCK ASSOCIATION. Hereford, Shorthorn, Jersey and Holstein cattle; Duröc-Jersey, Poland China and Humpshire hogs; Oxford, Shorthorn, Jersey Hampshire sheet, and the state of the state Hampshire below, good breeding stock at reason- hopping. Swime HART O. E. ATWATER Sarotare
ANGUS	Gladwin, Mich.
	för sale at all times, at farmer prices. M. M. PATRICK, Grand Ledge, Mich.
ABER-	BIG TYPE POLAND CHINAS Breed gilts for sale to farrow in April; also fall pigs either eex, ofte great litter by Orange Chandman 2nd, Write for prides, HIMM BROS., Chesaning, Wich
ANGUS	BIG TYPE POLAND CHINAS Spring bigs all sold. For fall pigs, write W. CALDWELL & SON, Springport, Mich.
AAUITVENENT	L. S. P. C. BOARS AT FARMERS' PRICES. H. O. SWARTZ Schooldraft, Mich.
ACHIEVEMENT The reward of pure breeding: the ac- complishment of quality Success has again contributed more laurels to already remarkable record of.	BIG TYPE P. C. SPRING PIGS EITHER SEX from large growthy dams and sired by choice herd hoars. Come and see our stock, price reasonable. L. W. BARNES & SON, Byron, Mich.
EDGAR OF DALMENY THE SIRE SUPREME At the International Live Stock Exposi- tion, where gathers each year the eifte of North American Cattledom to com- pete for the corrective awards, five more honors have been bestowed upon the "get" of Edgar of Dalmeny.	BOARS AT HALF PRICE BIG TYPE Poland Chinas bred in the purple, sired by Mich. Buster, A Ghant and Buther's Bir Bob. No better breeding. A big rugged, Biz-boned boar ready for service, resistered, for \$25,00-\$80,00. MO C, BUTLER, Pottland, Mich.
by this world famous sire will prove a most vatuable asset to your herd. Write us touray,	L. T. POLAND CHINAS. SPRING BOARS, gilts and weaning plas. Write HAROLD LEONARD, Alma, Mish. LARGE TYPE POLAND CHINAS
WILDWOOD FARMS ORION, MIGHIGAN. W E. Soripps, Prop. Sidney Smith, Mgr.	Lanue III Control Cont
ODDIE FARMS ANGUS of both sex for she, Herd headed by Bardell 81910, 1920 Inter- ational Jr. Chempion. Dr. G. R. Martin & Son, North Street, Mich.	BREEDERS' ATTENTION

cham champion, ne. Free cheerfully 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!

THE MICHIGAN BUSINESS FARMER.



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TRADE AND BUSINESS REVIEW TANY EVIDENCES of improved business conditions are making their appearance as the first month in the year grows older. The development of a general activity, in manufacturing circles, is still de-layed but the situation has in it much of encouragement. The lack of employment is still the condition that causes buyers at wholesale to be extremely conservative. Buyers at retail are said to be much more in evidence than they were one month ago. The ease at which money can be secured is one of the leading influences which have tend-ed to loosen the situation. One of the conditions which is sure to lend activity to the general trade of the country before very long is the scarcity which exists in many lines of manufacturered products. The wool market is booming, sev-

(266)

eral price advances having been not-ed during the past month; foreign demand is becoming much more active and the whole situation is gaining strength as the certainty dawns that a tremendous shortage in this product is imminent. The cotton market is uneven with a tendency toward weakness but the demand for both cotton and woolen cloth is active.

The recent even cold weather is having a steadying effect on many commercial lines, notably, footwear of all kinds, fresh meats provisions, live stock and all other seasonable goods. The demand for copper and zine is gaining in strength, coming largely from export sources and both mine owners and their employes are looking for prosperous year.

The stock market has been show ing much more activity, of late, with the rail issues most in demand. Some of the best industrial issues have been moving upward, the prin-cipal impelling force being rumors. of the purchase of large quantities of steel and other material which enters into the construction of automobiles. The bond market has been rather quiet of late and bids fair to continue so until further dividend disbursements release more money for investment. Call money is rang-ing from 3 to 3 1-2 per cent on the New York stock exchange and short time loans are easily available at 4 1-2 per cent. Weekly bank clear-ings were \$6,683,006,000

WHEAT

Wheat weakened on the Chicago market at the close of last week

WHEA		PER BU		
	Grade	Detroit	Chicago	I N. Y.
	Red White	1.191/2	1.17	1.21
No 3	Mixed	1.16 1/2	1	1.11.1/2
No 3	Mixed		1014 100	1.11 1/2
No. 3	PRICES	1.16 1/2	R AGO	

gained strength at Detroit. hut There is both bearish and bullish news of seemingly equal importance which keeps the market in a rather fidgety condition. Milling demand is light, but buying for foreign relief has been more active of late. Confidence in the statistical position of this grain seems to be on the in-crease and any appreciable falling off in visible supply should be im-mediately reflected in a stronger market. That there must come a pronounced decrease in the visible pronounced decrease in the visible at a very near date is the opinion of many traders, who upon the strength of their convictions are doing some 591 Reports investment buying. of European and Asiatic acreage indicate without question that more acres have been planted this year than last, but this does not necessarily mean a larger crop. The con-dition in which the domestic crop entered the winter will prove an unconscious factor in the wheat deal for some time to come. As stated last week we can see no important changes in sight in this market. Prices are still well up on the level of a month ago. They may advance

Edited by H H. MACK

MARKET SUMMARY

Wheat prices unchanged, but tone stronger due to revived export demands. Corn strong; oats firm. Cattle market dull, but hogs firm and price trend upward. Beans in demand and 10c higher than week ago on Detroit market. Potatoes firm and higher. Eggs lower. Butter markets steady.

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

some and likely will but as likely will lose part of the advance. feeding grains from the south also

.48 1/41

66 1/2

CORN

CORN PRICES PER BU, JAN. 17, 1922 Grade Detroit | Chicago | N. Y.

PRICES ONE YEAR AGO

changes in prices of consequence, prices in the Detroit market for

new stock declining 1-2c. The Chi-cago market also declined in the neighborhood of this amount. There

were many friends of corn in the

market but they were not optimis-tic enough to make very large pur-

tic enough to make very large pur-chases and as soon as prices ad-vanced they disposed of their hold-ing and then walted for the market to go lower so they might "pick up a few bargains". On the other hand the bear side felt none too bearish and they did not exert themselves to force prices downward: in fact

to force prices downward; in fact, they did not feel inclined to be-

they did not feel inclined to be-cause when prices declined farmers refused to sell. The average for the week found receipts heavy at Chi-cago, amounting to 2,343 cars, but shipping demand was good and re-

ceipts were not burdensome. Ship-ment sales totalled 2,500,000 bush-els at that market. Buying by the

Russian Relief Commission has in-

creased the demand for corn con-siderably. The opening of the cur-rent week found no change in tone

OATS Oats are displaying more strength

than any of the other grains. The

OAT PRICES PER BU., JAN, 17, 1922

No. 2 Yell No. 3 Yell No. 4 Yell

 Yellow old
 .56

 Yellow new
 51 ½

 Yellow new
 49 ½

34

Detnoit

or prices.

204

Grade

shows improvement, and there is a better feeling all around in this market. We hope our readers who market. We hope our readers who buy oats have acted upon our advice and made their purchases on con-tracts. They will not be able to buy oats as cheaply for a long time as they were a few weeks ago. The corn market fluctuated some last week but not enough to make

> RYE The Chicago rye market showed no change during the week ending January 14 but at Detroit this grain declined 2c in price. There were two declines of 1c each the final one coming on the closing day of the week and the first one on the opening day. There is an easy tone to the trading according to all reports. No. 2 rye is 83c at Detroit.

BARLEY

There has been no change in the harley market since our last issue. Prices at Chicago are 53@54c per bushel and \$1.05@1.15 per cwt. on the Detroit market. Indications are that trading is of a quiet nature.

BEANS

The bean market which has been running for some weeks on a fairly

12 2	Grade	Det	roit 1 (Chicago	1 N. Y.
C. H Red	P	4.4	10	4.67 7.12	6.20
	PRICES	ONE	YEAF	AGO	12 10 2

Detroit 4.00 even keel again shows signs of life and the price is up five cents on the Detroit market. The in the close of last week trade in beans had been rather slow but the demand seems to have perked up a little, though other markets aside from Detroit. show no change in prices. The ad-vancing price of potatoes will have a pronounced effect upon the de-mand for beans, and as long as po-tatoes continue to go up we may may tatoes continue to go up we may ex-pect higher bean prices as well.

POTATOES

Potatoes have advanced another 25 cents per 150-lbs on the Detroit market, and other markets report increased activity and higher prices. \$3.75 per 150-lb. bag is being paid

THE WEATHER FOR NEXT WEEK



WASHINGTON, D. C., Jan. 19, 1922 -The week centering on Jan. 29 wil -The week centering on Jan. 29 will average warmer than usual on meri-dian 90 from the Gulf of Mexico to the far north. The high temperature of that disturbance will be in north-western Canada about Jan. 27, in Michigan Jan 30, and in eastern sec-tions Jan. 31. A cold wave will be in northwestern Canada near Jan. 29, in Michigan Feb. 1, eastern sections Feb. 2. Last week of January will bring to Michigan one of the three warmest periods of the month and the week will

centering Jan. 22 has been counted as the coldest of the month in Michi-

as the coldest of the monen in successful and the coldest of the monen in successful and the stock are quickest to understand the laws of nature that produce our weather changes and I am making it a specially to teach them. When the storm center, called the low, comes into the far northwest and begins to reach Michigan it is moving southward and exactly at the same time the winds that carry the moisture from the Caribbean Sea and Guif of Mexico to that low begin to blow northward, thus carrying north the Mexico to that low begin to blow northward, thus carrying north the warm air of the tropics. But as the-storm center moves eastward across the continent the place in the Gulf and sea where the moisture is lifted mains stationary. Rather quiet last part of January; not much rain or snow; bad for winter wheat. These conditions will continue, with warmer than usual, till the week centering on Feb. 12.

W.J. Foster

this week in Detroit for best grades. This week in Derivit for test graces. This is an advance of nearly 50 cents a bushel from the low of a month ago. The producing sections which have been slow to receive the benefits of the higher prices at con-suming points are now getting them, it being reported that as far north

SPUDS	PER	CWT.,		7, 1922
State State			i Sack	ed Bulk
Detroit Chicago New York Pittsburg			1.97	2.42
P	RICES	ONE Y	EAR AC	10
Detroit	12742 120	100 200 100	1 2 75	1

as Traverse City some sales have recently been made at \$1 per bushel, recently been made at \$1 per bushel, while in more southernly sections farmers are having no difficulty in getting \$1.25 per bushel. These in-creased prices will probably bring out more potatoes and there is a chance that the market may sag a little before the close of the month, but this should not discourage holds. but this should not discourage hold-ers. As stated before we don't ex-pect fancy prices on this crop, but we do expect considerably higher prices before next June than now prevail prevail.

HAY .

Most markets were fairly flooded with hay last week and as a result

The start	No. 1 Tim	. Stan.	Tim. N	o 2 Tin.
Detroit .	19.00 @ 20	18.00 0	19 17.	00@18
Chicago	22.00 @ 24		19	00 @ 21
New York Pittsburgh	29.00 @ 30	00 000	27	00@29
Fierspurgu	22 50 @ 22		a contraction of the	
	No. 1			
	Light Mix.	and the second	CARL STREET, ST	CONTRACTOR OF A
Detroit .	18.00@19	15.00	D 16 14.	00@15
New Vork	21.00 @ 23	19 00 0	20 17	00@19
Pittsburgh	iel vu@ee	20 50 6	21 20.	50 @ 21
H/	Y PRICES	A YEAH	R AGO	Sec. C.
	No. 1 Tim	Stan.	Tim. N	0 2 Tim
Detroit .	24.00@25	29.00 @	24 22 (0@23
3 Q. A. I	No. 1 Light Mix.	No. Clover	1 I G	No. 1 lover -
Detroit .	28 00 @ 24	20.00 @	21 20 0	0@21
			and the second second	and the second se

the market was easier and tended toward lower values. The best grades were in good demand but the greater portion of the hay received was of poor quality and dealers experienced much difficulty in disposing of it at prices quoted. The De-troit market was steady and no changes in prices were made.

APPLES A marked improvement is shown A marked improvement is shown in the Chicago apple market and many varieties advanced, in price during the' week ending Saturday, January 14th. Buyers were some-what backward about paying the higher prices but there was a good trade in many varieties especially trade in many varieties, especially barreled Greenings, Jonathans, Kings and Spies.

Kings and Spies.
Quotations on "A" grade, barreled stock are: Greenings, \$10@10.50;
Jonathans, \$10; Kings, \$9; Spies, \$9;
Baldwins, \$7.50@9; Grimes Golden, \$8.50@10; Tolman Sweets, \$7.50;
Wageners, \$8; Spitzenberg, \$8.50;
Canadian Greenings, \$9.50.
Quotations on Western boxes are: Jonathans, extra fancy, \$2.75@3; fancy, \$2.50; Delicious, extra fancy, \$3.50@4; fancy, \$2.25@2.50; King David, extra fancy, \$2.25@2.50; King David, extra fancy, \$2.25@2.50; King David, extra fancy, \$2.25@2.50; Baldwins, \$1.75@2; fancy, \$2.25@2.5; Baldwins, \$1.75@2; Baldflower, \$1.75; Greenings, \$1.75@2; Spitzenberg \$2.25@3; Wageners, \$1.75
Black Twigs, \$2@2.25; Stayman Wine-saps, \$2.50@2.75.

ONIONS

The car lot onion market is firm and values are at a higher level level than they have been at any time during the past two weeks. Receipts are moderate, amounting to about the same as a year ago. Dealers are selling some stock but are not auxious to dispose of their holdings as they believe higher prices are due in the near future. Indiana reds and yellows are quoted at \$6.50 per cwt. f. o. b. shipping point. at Chicago.

CABBAGE

Dealers are disappointed in the cabbage market. While there is a scady tone in evidence the brisk demand they expected after the holi-days failed to mature, Chicago operators are quoting Wisconsin cabbage at from \$45 to \$50 per ton with most of the sclere to with most of the sales at around \$45 @ 47.

Detroit | Chicago I N. Y. .42 .39 ½ 30 22.2 87 1/2 .34 1/4 PRICES ONE YEAR AGO No.2 White No.3 White No.4 White 50 .48 1/2 |



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

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LIVE STOCK MARKET

Cattle and hogs that were headed back by the big packing-house strike are coming forward in large volume and prices are suffering as a result. Chicago got 24,000 more attle last week than the week before and the close last Saturday was 25 to 50 cents lower on all of the killing kinds. Canners and cutters were 10 to 15 cents higher and stockers and feeders were 25 cents higher than the close of the week before. Exporters took about 1,000 cattle last week at Chicago but they ere of the medium-priced kinds, attempt to buy the best, long-fed steers, being made.

Eastern dressed beef markets ad-vanced early last week but the gain was short-lived and the close was on a par of the week before. At Chi-cago eastern order buyers showed a pronounced preference for heavy, highly finished cattle. Yearlings of the second-grade type were dull and hard to sell all the week; really fancy yearlings were scarce with not enough on offer to meet the needs. of the trade. It begins to look like a big February run of both hogs, and cattle, the underlying cause bethe pressing need of money. March 1, will see a large number of men moving away from the cornbelt; all of the feeders in this list, who have cattle or hogs, will send them forward before the date mentioned.

In spite of the fact that Chicago got 20,000 more sheep and lambs than during the week before, prices for all of the desirable killing kinds ranged 50, to 75 cents per cwt. highranged 50, to 75 cents per cwt. high-er than the average of the week be-fore. Last week's average on ma-ture sheep in the Chicago market was \$1.05 per cwt. higher than for the week before. From Monday morning of last week until Thurs-day night, fat lamb values rose steadily, some sales on the "peak" showing \$1 gain over the close of the week before; on Friday the trade eased off, but at that, the net rain for the week was fully 50 cents gain for the week was fully 50 cents per cwt. A strong eastern demand was the lifting force, receipts east of Chicago, being very light until Friday when eastern markets got large runs.

Feeding lambs were in large sup-ply, all last week but everything offered was promptly taken at prices steady with the week before and about 65 cents per cwt higher than for the same week last year. The average price for lambs in Chicago, week was 80 cents higher than last for the previous week and 95 cents higher than for the same week last year.

Chicago got 104,000 more hogs last week than during the week be-fore; this increase in arrivals represented just about the number tak-en by the shippers, leaving the reen by the simplers, leaving the re-mainder, or more than 150,000 hogs for the packers to absorb. Buyers for shipping purposes favored heavier hogs than usual last week, a fact that held the top price for the week down nearer to the general average.

The new year opened with stocks of provisions, in the storehouses of the country, 50,000,000 pounds smaller than on the same date last year. Regardless of the claims that Europe is not buying our products, export figures on meats show that for December and for January, so far, export clearances have been much larger than for a like period, last year.

--- Charle The

Live Stock Prices
The following prices were paid at the
Detroit Stockyard, Tuesday, Jan. 16th:
Best heavy steers \$ 6/50@ 7 50
Best handywt butcher steers 6 75@ 8 00
Mixed steers and heifers5 25@ 6 25
Handy light butchers 5 25@ 6 00
Light butchers 4 50@ 5 00
Best cows 4 75@ 5 50
Butcher cows 4 00@ 4 50
Cutters
Canners 2 25@ 2 75
Choice bulls 4 50@ 5 50
Bologna Bulls 4 00@ 4 50
Stock bulls 3 50@ 4 25
Feeders 5 50@ 6 00
Stockers 4 25@ 5 25
Milkers and springers 40 00@75 00
Culves Best\$12 00@12 50
Best
Sheep
Best lambs \$12 75@13 00
Fair lambs 9 75@11 00
Light to common lambs 7 50@ 8 75
Fair to good sheep 5 00@ 6 50
Culls and common 1 50@ 3 00
Hogs
Mixed hogs
Extreme heavy 6 75
Roughs 5 50
Stags 4 50
Boars 3 00
Pigs and lights 8 10

EAST BUFFALO LIVE STOCK BARNET BARNET BARNET Cattle: Receipts, 2,750; slow, steady to fored; quoted at \$7 25 08 25; butchers, \$7 25 08 25; yearlings, \$9010; helfers, \$5 07 05; cover, \$2 25 05 50; butchers, \$5 07 05; cover, \$2 25 05 50; butchers, \$6 00 5 25; few at \$6; stockers and foeders, \$5 06; fresh coves and springs, \$40 0125; Calves; Receipts, 2,200; 50 oretas higher at \$3018 50. Hogs: Re-ceipts, 17,600; slow at 50 to 76 cents, \$15 06 6 25; stags, \$3 50 04 50, \$80 06 25; stags, \$3 50 04 50, \$80 06 10; slow at 50 to 76 cents, \$25 116 th do and pigs, \$8 25 08 50; poughs, \$6 06 25; stags, \$3 50 04 50, \$10 00; slow at 50 00; hamba \$10 00; slow at 50 00; slow at 50 00; hamba \$10 00; slow at 50 00

BOSTON WOOL MARKET

The Commercial Bulletin of Jan. 14 says: "There has been a fairly considerable business in the seaboard markets during the last week, manufacturers showing decided int-erest in wools, which they needed for filling out contracts. Prices have been marked up again this week, as the knowledge of the growing shortage of wool has become more general and certain. The situation in the foreign markets is very strong.

The Bulletin gives wool quotations as follows:

tollows: Ohio and Pennsylvania fleeces—Delaine unwashed, 43@45c; fine unwashed, 33@ 35c; 1-2 blood combing, 38@40c; 3-8 blood combing, 35@36c. Michigan and New York fleeces—De-laine unwashed, 40@42c; fine unwashed, 31@33c; 1-2 blood unwashed, 37@38c; 3-8 blood unwashed, 35c; 1-4 blood un-washed, 33@35c.

MISCELLANEOUS MARKET QUOTATIONS Detroit, January 16.

BUTTER-Best creamery, in tubs, 31@

BUTTER-Best creamery, in tubs, 31 () 26 per lb. EGGS-Fresh candled and graded, 37 @ 38c; storage, 20 @ 26c per doz. APPLES-Greening, \$3 @ 3.50; Bald-wins, \$2.75 @ 3; Spy, \$3 @ 4; Jonathan, \$3 @ 3.25; western, boxes, \$2.50 @ 3.50, POPCORN-Globe, 5c; Little Buster, 10c per lb.

POPCORT Michigan, 40@50c per doz. CELERY-Michigan, 40@50c per doz. and \$1.25@1.50 per box; California Jumbo, \$1.45@ 1.20; mammoth, \$1.40@1.50 per doz. ONIONS-Eastern, \$7@7.25 per 100-lb

DRESSED HOGS-Small to medium,

DRESSED_HOGS_SMAIL & Medium, 10@11c; heavy 5@7c per lb. LIVE POULTRY_Best spring chick-ens, 25c; Leghorn springs, 20c; large fåt hens, 27c; medlum hens, 25c; small hens, 18@20c; old roosters, 15c; geese. 18@20c; ducks, 28c; turkeys, 30@35c per lb.

WEEKLY MARKETGRAM

U. S. Bureau of Markets and Crop Estimates.

WASHINGTON, D. C., For the week ending, January 14, 1922. FRUITS AND VEGETABLES:

Eastern potato consuming markets weaker. Chicago market steady. Demand and movement limited. New York sacked round whites down 10 to 20 cents in New York and Phila. at \$2.15-\$2.35 per 100 pounds. Firm in producing regions at \$2. Bulk stock firm in New York City at \$2.35-\$2.50. Northern sacked round whites steady in Chicago at \$1.90-\$2.10, weaker at shipping points at \$1.75-\$1.85.

A firm tone prevails in barreled apple markets. New York Baldwins @ 21-2 ranged \$7.25-\$7.75 per bbl. in eastern markets. Michigan stock up 50 cents in Chicago \$7,75-\$8. Maine No. 1 Baldw Maine No. 1 Baldwins from cold storage steady at \$7-\$8. Prices in cabbage markets slow downward trend. New York nearly steady at \$53-\$58 per ton bulk, for Danish type stock. Other markets ranged \$45-\$50. New York Danish steady at shipping points at \$40-\$42; Wisconsin Danish down \$7-\$8 at \$41-\$43.

FEED—Demand continues light in most markets. Wheat feeds are a triffe easier, due to heavier offer-ings from spring wheat mills for future shipment. Mill offers are for bran and middlings equal qualities each month February to June, in-clusive, at slightly below prompt shipment prices. Cotton-seed meal shipment prices. Cotton-seed meal prices unchanged, demand unim-proved. Hominy weaker, quoted \$1 lower. Gluten feed price reduced \$2 per ton. Alfalfa meal and beet pulp per ton. Alfalfa meal and beet pulp quiet; Prices unchanged, stocks and receipts fairly good. Quoted Jann-ary 13: Bran, \$21; Middlings, \$21.50; flour middlings, \$23; Minne-apolis; 36 per cent cotton-seed meal \$33.50, Memphis; white hominy feed \$20, St. Louis; gluten feed \$34.65, Chicago; 34 per cent linseed meal \$43, Minneapolis; No. 1 Alfalfa meal \$16.75, Kansas City. DAIRY PRODUCTS — Butter markets demoralized early in week but firm at close following advances the past few days. Best trading on

the past few days. Best trading on

top grades. better as fresh prices show tendency better as fresh prices show tendency to advance. Closing prices 92 score: Philadelphia, 37 1-2c; Boston, 36 1-2c; New York, 37 1-2c; Chicago, 34c. Trading in cheese markets fairly active. Tone steady. In-creased demand for small lots but business involving large orders still dull. Slight declines on Wisconsin cheese boards Monday, January 9. Shipping in Wisconsin, hindered by cold weather. Prices at Wisconsin primary markets January 13: Twins, 20c; daisies, 20 1-2c; double daisies, 20 1-4c; longhorns, 20c; square prints, 22 1-2c.

MUSINGS OF A PLAIN FARMER ROSE EARLY! Being awakened

by a gust of wind striking. my cottage with cyclonic force. I'll keep a weather eye out while go-ing around the barn. I am not so active on my feet as I once was, it might trouble me to side-step a The barn is insured and so rafter. am I, but I hope neither of us goes. The old year is going out with a

Storage butter moving bang. He has been rather tempestuous all through. Tomorrow is the day of resolutions, one I can make

(267) 23

quite easy—Unless my purchasing power is increased. I am resolved to go without some things I need badly. If I could bridge the space be-

tween January and January and tell the price of my farm products next year, I would be a marvel, wouldn't I? Yes, indeed! Should I suggest a price one year ahead, I would be a joke. The farmer never knows, and yet, he keeps on and on, crawling around in his fields plowing, sowing, reaping — Gambling with the elements above and below. Dreaming of better days, flattering

himself with impossibilities. Gosh! I didn't intend to get into that heavy stuff, I'll stop and take inventory and make out my income tax

The inventory is easy, -1 didn't have anything when I started a year ago, and I have just broke-even. And the income tax, well!--even. And th A. P. Ballard.



Agency Manager, The Michigan Business Farmer, Mt. Clemens, Mich.



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