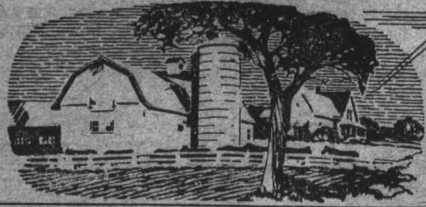
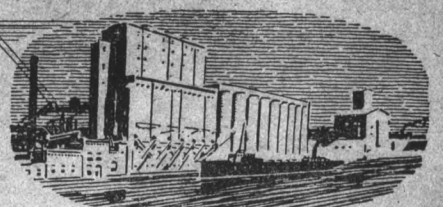


The Michigan BUSINESS FARMER



An Independent
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MT. CLEMENS, SATURDAY, MARCH 26, 1921

\$1 PER YEAR

Looking into the Future of Livestock Markets

Indications are that General Trend of Values will be Upward During Coming Year

EARLY LAST MONTH, The Michigan Business Farmer published an article urging its farmer readers to stand firmly by their current undertakings in live stock breeding; in this connection, a forecast of improved conditions, soon to materialize, was ventured. The predictions made were based upon a lifetime's experience, spent in the study of markets and the conditions that make for higher and lower prices in their relation to cereals and live stock. The old axiom, that one extreme follows another, in connection with live stock production and values, was cited and the prediction was made that high-grade beef cattle would sell for twice as much per pound, some time during the coming year, as they did on the recent low point. While the writer hardly expected that the passing of one short month would see a substantial beginning made in the promised revival, past experience had taught him the inestimable value of steadfastness in connection with live stock breeding and feeding operations.

Since the article, referred to above, was published, the selling prices for live cattle have advanced, unevenly, from 50 cents to \$2.50 per cwt., sheep and lambs, from 50 cents to \$1.50 per cwt., and all grades of hogs from \$1.50 to \$2 per cwt; no guarantee can be given that these material advances will hold without reaction, in fact, it is safe to predict that prices will react nearly to former levels, for short periods, during the upward trend but that the general course of live stock values will be upward, during the coming year, now seems to be a foregone conclusion. That there is a visible shortage of fat cattle may be disputed but that the country is short of well-bred stockers and feeders no one will deny.

The spring months of April, May and June are before us and the cattle feeder is intensely interested in the trend of prices during these months. The cattle sent to the interior from leading market centers during January and February, usually return to market during April and May. During January and February, this year, the decrease in the feeding cattle output, from ten of the leading markets of the country was 31.03 per cent when compared with the same period in 1920. Recent arrivals in all of our leading cattle markets have been of very low average quality, indicating that the need of money has caused the cattle crop to be closely garnered. In a word, tight money and lack of confidence in the future of the business, caused the western farmer to cash

the cattle that he had on feed and the same considerations, with the added obstacle of high freight rates, prevented him from purchasing cattle for restocking purposes. All signs favor poor picking for killers of beef cattle, during April and May.

Better Understanding Needed

Recent newspaper reports inform us that the packers and retail meat dealers of the country are forming an organization for the purpose of promoting improved methods for merchandising meats. It is claimed, that when this organization gets down to business, the cost of fresh meats to the consumer will be considerably decreased without a corresponding decrease in the price paid to the producer. The above information should be rich in suggestion to the American farmer. The Farm Bureau committee of 15, selected for the study of present live stock marketing methods, will do well if they give the big packers an opportunity to make some suggestions concerning a subject with the intimate details of which they are more familiar than anyone else. It is quite possible that packers might decline to co-operate; the facts about this phase of the situation will never be known until the men who are interested in the production end of the business, make an honest effort to ascertain the mind of the packer in relation to this important matter.

It is an open secret, that under the live stock marketing conditions which have prevailed during the past year, the packing-house business has not prospered. So far,

in the history of this country, it has not been possible for the producer of live stock and the packer to come to an amicable understanding one with the other. Possibly, there may have been a change in conditions, who knows? What about some sort of an understanding between producer and distributor, that would increase the amount received by the producer without increasing the cost to the consumer?

The future of sheep and lamb markets is problematical at this writing; the tremendous stock of frozen mutton and lamb still in the coolers of the country, hangs like a pall over this branch of the market. Storage conditions, in connection with mutton and lamb, are quite different from those which have a bearing on the future market for beef. Stocks of frozen beef are now less than 100,000,000 pounds, while on this date, last year, 250,000,000 pounds of frozen beef was waiting to be marketed. The supply of frozen mutton and lamb, still in the coolers of the country, is many times what it was on this date last year. The wool market is dull and heavy with little hope of improvement for some time to come. The decrease in the output of feeder sheep and lambs from the leading markets of the country during the months of January and February was 65.76 per cent when compared with the same period last year. That the sheep are not on feed is a foregone conclusion. The question is, will the demand for fresh-killed mutton and lamb be insistent enough to cause an increase in selling prices?

The hog breeders of the country are intensely anxious concerning the future and well they may be. The thought that American hog raisers must go on, year after year, producing millions of the finest hogs that the sun ever shone on, just for the accommodation of the packers of the country and without hope of profit to themselves, is repugnant in the extreme. Here again, is a rare opportunity for amicable co-operation between the packer and the producer but will the packer co-operate is the vital question?

Since the rotten markets for hogs during the taxpaying season were over, prices have been fairly satisfactory and farmers who marketed their corn "on four legs," are much better satisfied with results than those who lacked the hogs or cattle and sold their corn to the elevators or are still holding it for the better prices that look farther and farther away every day. An active demand from the

(Continued on page 11)

MICHIGAN CAMPAIGN European Relief Council

HERBERT HOOVER, NATIONAL CHAIRMAN

Michigan Headquarters
100 Griswold Street, Detroit

"National Collection"

For the Suffering Children of Central and Eastern Europe

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AMERICAN FRIENDSHIP SERVICE COMMITTEE
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AMERICAN RELIEF ADMINISTRATION
FEDERAL COUNCIL OF THE CHURCHES OF CHRIST IN AMERICA
JEWISH JOINT DISTRIBUTION COMMITTEE
KNIGHTS OF COLUMBUS
YOUNG MEN'S CHRISTIAN ASSOCIATION
YOUNG WOMEN'S CHRISTIAN ASSOCIATION

NATIONAL TREASURER
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STATE TREASURER
DETROIT TRUST CO.
DETROIT, MICH.

MT. CLEMENS, MICHIGAN

February 15, 1921

Michigan Business Farmer,
Mount Clemens, Michigan.

Gentlemen:-

It is with the utmost thanks and appreciation that I acknowledge receipt of your checks for \$955.60, representing the contributions of the readers of your publication to the Hoover Relief Fund. Will you please convey to them my heartfelt thanks for their offering which will mean so much to the starving children of Central Europe?

Respectfully yours,

H. M. Macomber
Chairman Macomber County Committee

COMPLETE

DISPERSAL SALE

OF REGISTERED

Holstein Friesian Cattle

It very seldom happens that such a large percentage of the cows offered at a dispersal sale are of such desirable age: Just think, fifteen of those heifers have recently freshened or are soon to freshen with their second calf. This gives you a chance to get foundation stock for a herd with their whole life before them and of the very best blood lines.

Our herd is rich in the blood of such noted Sires as De Kol 2nd Butter Boy 3rd; King of the Pontiacs; King Segis; Sarcastic Lad; King Segis Pontiac Alcartra, the fifty thousand dollar Bull; Colantha Johanna Lad, etc.

This sale will be held at Bowler Farm, Four miles from Clare, Michigan, on Ann Arbor and P. M. railroads on

Wednesday, April 6, 1921

beginning at Eleven O'clock.

COLONEL D. L. PERRY, of Columbus, Ohio, will be the Auctioneer with S. T. WOOD, of Liverpool, N. Y., as pedigree expert.

All of these cows and heifers that have been fresh long enough are bred to our herd sire Wolverine Ormsby Segis who is a grand son of the King of the Pontiacs, one of the greatest of all Sires. His Dam is sired by the Great King Korndyke Hengerveld Ormsby. She is also a sister to Ormsby Korndyke Lad thus combining the very best blood lines possible to obtain. This sire will also be sold at the sale. He will be just two years old at time of sale.

The day before, (April 5th), there will be a general auction of farm tools, etc., which will include seventeen horses, of this number many are young heavy Belgian horses.

Pedigrees furnished on day of sale.

Bowler Bros.

Clare, Michigan.

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You do not need any experience or practice to use the DUPLEX AUTOMATIC HAIR CUTTER. It comes to you ready for instant use, and five minutes after you receive it you can have your hair cut better than it was ever cut before.

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Inside of a very short time you will have to pay \$2.00 for the DUPLEX. The price today is \$2.00, but while our present stock lasts we will accept this advertisement the same at \$1.00 Cash. Cut it out and send it with ONLY \$1.00 and we will send you the DUPLEX AUTOMATIC HAIR CUTTER ready for instant use, postage paid, to any address. SEND TODAY. AGENTS WANTED. DUPLEX MFG. CO., Dept. 82, Detroit, Mich.

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Oil an Aermotor once a year and it is always oiled. Every moving part is completely and fully oiled. A constant stream of oil flows on every bearing. The shafts run in oil. The double gears run in oil in a tightly enclosed gear case. Friction and wear are practically eliminated.

Any windmill which does not have the gears running in oil is only half oiled. A modern windmill, like a modern automobile, must have its gears enclosed and run in oil. Dry gears, exposed to dust, wear rapidly. Dry bearings and dry gears cause friction and loss of power. The Aermotor pumps in the lightest breeze because it is correctly designed and well oiled. To get everlasting windmill satisfaction, buy the Aermotor.

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A year's supply of oil is sent with every Aermotor.

Everbearing Strawberries

Our selection best varieties for home and market—100 plants postpaid \$2.50; 200, \$4.25; 500, \$6.

Home of the Everbears
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Rest up-to-date standard varieties (not everbearing, our selection.) 100 plants postpaid, \$1.25; 200 \$2.10; 500, \$2.95. Catalog free.

C. N. FLANSBURGH & SON, Jackson, Mich.



BRIGHAM'S SOFT GROUND HORSE SHOE

With the use of this SHOE all the low, wet portions of the Farm are made tillable. Send for circular.

J. F. BRIGHAM, Manufacturer, Decatur, Mich.

Michigan Grown Soy Beans

Hardy stock, Michigan grown, selected for their proven high yield. It pays to use Northern Brown seed because plants from such seeds have vitality, full of pep, make speedy, vigorous growth.

We handle all kinds of clovers and field seeds, Michigan grown.

Prices, per bushel

Ito San, \$5.25 Early Brown, \$4.75
Hollybrook, \$4.75 Manchou, \$4.75
Black Eyebrow, \$6.25

SEED DEPARTMENT

Michigan State Farm Bureau
223 N. Cedar Street Lansing, Michigan

Lifting the Lid at Lansing



SHALL THEY HANG?

THIS question has been agitating the house members for some time and has proven a subject of most absorbing interest. The bill was introduced by Rep. Russell C. Hart of Detroit and it has probably occasioned more comment than any other five bills presented in either house during this session. On final passage in the house the flood gates of oratory, pro and con, were opened and members were given their first opportunity to make a full list of its orators. Members who have suddenly watched proceedings heretofore waxed eloquent either in support of or opposition to the measure and the vote was not taken until after the lights were turned on and the result was 49 for and 46 against, being two short of the 51 votes necessary to pass it, and the people of Michigan are to be congratulated on the result. From Sinai He said: "Thou shalt not kill."

BY SENATOR HERBERT F. BAKER

was "an administrative measure and it shot the chutes without any alteration and among the good things that may be expected from it is the use of the buildings for storage and market places for farm products (terminal warehouses) and among its faults will be found the scramble among cheap and cheaper politicians for places from manager to messenger, and the rush of long-haired men and short-haired women protesting against this or that feature of the program which does not square with their ideals nor their Pharisaism notions.

COLGROVE HIGHWAY

SENATOR PENNY of Saginaw has before the legislature a bill providing for a new trunk line highway commencing at a point on the Indiana line and running north-easterly across the state to Port Sanilac on Lake Huron in Sanilac county to be known as the Colgrove highway. If this bill were to pass it would add largely to the present aggregate of trunk line highways which at the present is sufficiently comprehensive to cover the principal routes of travel in every part of the state and involving a program of construction and maintenance which has already placed burdens of taxation on the people amounting well into the millions, established a bonded indebtedness of fifty millions, and which will call for other millions yet to be raised either by direct tax or by additional bond issues. I question the wisdom of adding, at this time, to the trunk line mileage of the state thus entailing additional tax burdens on the people until we have more nearly completed those now provided for and are enabled to see where we are coming out with the funds already provided. The fifty millions provided for in the bond issue will not build roads between all the villages and crossroads of the state and it would seem that we should do well to confine our efforts at present to the construction of the trunk lines now established and then make such additions as may then seem necessary or advisable. Senator Penny is from Saginaw and it will probably occasion general surprise to note that this proposed new trunk line would pass through that city.

Many members of the legislature think that when the state begins to name its trunk line routes for men who have been patent factors in the good roads movement, the name of Horatio S. Earle should take precedence over any and all others in the state of Michigan.

BUILDING INTEREST IMPROVING

INDICATIONS of a revival of interest on the part of Michigan farmers in farm building and improvement are evidenced by numerous inquiries from farm bureau members for prices on building materials, says the state farm bureau forestry department.

This renewed interest has been given added stimulus by a 40 per cent average decline in lumber prices during the past few months.

Curtailment of operations on the part of some large lumber interests would seem to preclude the possibility of an immediate return to 1917 prices on this commodity, according to the state farm bureau.

MIDLAND FARMERS BUY T. N. T.

MIDLAND holds the record for amount of government explosive secured. Through the Farm Bureau and the County Road Commissioners, County Agent McMurty worked up orders for and had 114,000 pounds of T. N. T. delivered.

This made up three big car loads. Few, if any other counties, secured over one car. This made a saving of some \$22,800 to the farmers. In addition to this the Farm Bureau has purchased 38,000 feet of fuse and 22,300 caps to explode T. N. T.

STATE FAIR

BOTH HOUSES have passed the bill creating the Department of Agriculture which among its many excellent features, and there are many of them which are really excellent, is a provision for the state to take over and operate the state fair. Many members of the legislature doubt the wisdom of this provision but the psychology of the situation is fittingly illustrated by Senator Davis who, when some bill is pending arises and asks: "Is this an administrative measure?" If this State Department of Agriculture bill

Reconstruction League Opens in Michigan

Farm-Labor Organization Takes Field With Ultra-Progressive Economic Progress

REPRESENTATIVES of the People's Reconstruction League met in Detroit last Saturday to discuss the legislative program of the League, which includes immediate restoration of the railroads to unified government operation, packer control legislation, progressive taxation of estates, incomes and excess profits, and a vigorous fight against a retail sales tax and other consumption taxes, federal control of natural resources, changing the banking and credit system so as to make it serve the people instead of the big financiers, and opposing universal military training.

Senator Herbert F. Baker, of Weadock, Michigan, president of the League and of the Farmers' National Council, declares that the adoption of this program will save the farmers and laboring men of the country six billion dollars per year. Sen. Baker and Mr. Carey Ferguson, president of the Michigan State Federation of Labor were organized to elect a state committee of the League and to prepare a plan of action.

Speakers at the Detroit conference included Benjamin C. March, of Washington, D. C., who is secretary of the League; Wm. H. Johnston, president of the International Association of Machinists; C. C. Connolly, president of the United Farmers of America; and Bishop C. D. Williams of the Episcopal diocese of Detroit. Although the latter is not actively identified with the League, he warmly endorsed its program.

Baker Raps Cummins-Esch Law

The burden of Sen. Baker's remarks before the conference dealt with the railroad situation. He said in part:

"Farmers know that it is almost a calamity to be a farmer, and that this is due to causes which can be changed by Congress and by cooperative activity between farmers through commodity marketing and direct trading between farmer producers and city consumers. In this conference we are concerned primarily with the legislative program of the People's Reconstruction League, which enlists the interests of every clear-thinking farmer and worker, because it means saving the

Platform of People's Reconstruction League

RESOLUTIONS adopted by the League in session at Detroit reflect the "platform" of the League. They are as follows:

1. Legislation to provide strict federal control of the development of the natural resources,—coal, iron, copper, phosphates, natural gas, water power and timber land.
2. Legislation limiting the use of the people's deposits in national and state banks to legitimate productive purposes, (rather than speculative).
3. Opposition to any sales or other consumption tax, and retention of taxes levied during the war upon incomes and excess profits.
4. Denunciation of universal military training as unjustified and a menace to American institutions and to economic and political democracy.
5. Government control of packing industry.
6. Opposition to so-called "open shop" plan as a move to destroy organized labor and detrimental to the interests of the country.

farmers of America at least \$3,000,000,000 a year,—that is to say, a goodly sum for every broke farmer, an average of over \$400 for a farm family of six.

"Some farmers were fooled a year ago by the propaganda of the railroads for the Cummins-Esch Law. That law was one of the most serious blows ever struck at agriculture. The Department of Agriculture states that the value of all farm products last year was over \$5,000,000,000 less than for 1919 although most of the staple crops were much larger than in 1919. The slump in prices of farm products from July to December of last year was at least \$5,000,000,000. On top of this came the increase of one-third in freight rates from the vicious Cummins-Esch Law. The price which the farmers got for their products went down from a third to a half, and sometimes two-thirds, while freight rates went up a third. The only possible relief for farmers from the exorbitant freight rates due to the whole Cummins-Esch Law and the bad system of pri-

vate competitive speculative operation of railroads is through the immediate restoration of railroads to unified Government operation. If there be any deficit, which is hardly probable when the railroads are so returned it should be made up by taxation upon the profiteers. Freight rates should be reduced to those in force when the roads were returned. The last twelve months' experience shows that under competitive operation the railroads are becoming insolvent, despite an enormous government subsidy of three-quarters of a billion or a billion dollars a year and utterly inefficient with such subsidy."

Marsh Criticizes A. F. B. F.

Benjamin Marsh devoted a good deal of his time to a discussion of the "reactionary leadership" of the American Farm Bureau Federation, which, he charged, in conjunction with the leaders of the National Grange and two or three other minor farm organizations, "is responsible for the enactment of the Cummins-Esch law, which turned the treasury of the United States over to the speculative gamblers of Wall Street." He called the endorsement of this law by the above farm organizations a "betrayal" of the farmers, and charged that by such action the A. F. B. F. has "already cost the farmers of the United States at least a billion dollars during the past year." Continuing he said:

"We know that when the farmers of Michigan and every other state in which there is a Farm Bureau Federation realize this fact they will insist that the national leaders of the Farm Bureau Federation quit playing the game of Wall Street, and get behind a sound and just program such as that of the Farmers' National Council and the People's Reconstruction League."

Sees Disaster Ahead

Mr. Marsh also alleged that the present conditions of industrial depression, unemployment and poverty of agriculture are the results of "vicious legislation which congress has enacted." Upon this point he said:

"Two years and a half nearly have elapsed since the Armistice following the Great War, and the world is in a more dangerous situation than at any time almost during the war. Before the Great War started, the (Continued on page 11)

State Farm Bureau Wool Department Having Clip Made Into Suitings

Make Arrangements to Have Suits of Virgin Wool Tailored for Michigan Consumers at Reasonable Prices

MANUFACTURE of ladies' and men's suitings from virgin wool in the Michigan State Farm Bureau pool is the latest outlet developed by the organization's wool department for the marketing of the Michigan fleeces in face of the present and long continued slump in the world market, says the farm bureau. The first marketing venture of the kind, the manufacture and sale of woolen blankets at cost of production, has been a marked success, with sales totalling 100 a day, says the department.

With approximately 1,500,000 pounds of the 3,500,000 in the pool sold, the wool department has made a connection with a Michigan mill, whereby a large portion of the remaining high grade virgin wool will be manufactured into suitings for sale to Michigan consumers at cost of production. The action was taken primarily in the interests of 97,000 farm bureau members. Eighteen thousand growers having wool in the pool will benefit through extra returns on the wool going into the suitings.

The farm bureau has gone a step further through arrangements now being made with a Michigan tailoring house for tailoring ser-

Michigan Backs Marketing Plan

MICHIGAN grain growers have endorsed the plan of the Farmers' National Marketing Committee of Seventeen for the co-operative marketing on a national scale of all the surplus grain crops of the United States. This is the news that comes from East Lansing following a meeting of one hundred grain growers, managers of co-operative grain marketing associations, county agents and others interested in the co-operative marketing plan who were present to listen to a discussion of the plan by C. V. Gregory, member of the Committee of Seventeen, and W. E. Eckhardt, secretary of the Committee. Hale Tennant, A. B. Cook and James Nicol were elected delegates to represent Michigan farmers at the ratification meeting to be held at Chicago, April 6th. Great stress was laid by the speakers upon the fact that the proposed system is farmer-owned from top to bottom and that marketing experts have pronounced it legally and economically sound. Full details of this plan have already been published in these columns. —Editor.

vice, which with high grade lining and trimmings, should not exceed \$20 a suit. Three

and one half yards of farm bureau suiting at \$2.50 to \$3 a yard will make an average man a suit, says the wool department.

Sample books now going out to the counties reveal that the mill will make the farmers' wool up into 25 patterns. Farm bureau charts for prospective purchasers are declared to make the measurement for a suit a simple matter.

Three thousand virgin wool blankets from the state pool have been sold to Michigan farmers, and the demand is growing, says the department. Orders are now coming from outside the state.

Wool department men now in the field arranging for the 1921 wool pool have been notified that the department will be ready to start operations April 1. Twenty-five warehouses are being located in as many sections of the state for the more economical handling of wool. Dates will be set for wool assembling at the various warehouses. On those days wool will be graded and weighed in the presence of the grower, and he will receive his warehouse certificate then. The Michigan Agricultural College is preparing a series of exhibits to be used in connection with the wool grading.

Shipping Livestock Co-operatively in Illinois

Farmers' Shipping Association Does Over Million Dollars Worth of Business in One Year

By CARL M. KENNEDY

IF THE FARMERS of Adams County, Illinois had made an arrangement so that the livestock shippers would give them \$98.95 out of every \$100 worth of the livestock sales, less terminal charges, the shippers to stand all risk to the livestock from death, accident, and other causes, the financial result to them might have been the same as with this shipping association.

We don't imagine that many shippers would make a contract of this kind. However, that was the result of co-operative shipping in Adams County during the past year. In addition to getting economical service they have built up an organization for the efficient handling of their livestock business.

Last year the newly organized county shipping association did a total of \$1,200,067.18 worth of business, representing 610 cars of stock at a total home cost plus insurance of \$12,699.99, or in other words on a margin of 1.05 per cent of the returns.

The total terminal charges, including the freight, amounted to \$48,938.45. This made the total marketing charge 60.4 cents per hundred pounds or a margin of 5.2 per cent of the total receipts from the livestock. 3,044 cattle were shipped which weighed 1,914,685 pounds at home and shrunk 58,850 pounds or 19 1-2 pounds per head. 30,434 hogs weighed 8,374,658 pounds at home and shrunk 98,978 pounds, or 2 1-2 pounds per head. 3,091 sheep weighed 232,788 pounds and shrunk 11,818 pounds, or a total of 3.8 pounds per head. The average shrink on all shipments was 1.15 per cent which would make the average difference between the home price and the market price between 70 and 80 cents per hundred.

Cut and Fit Plan

The formation of the organization in Adams County came about on a cut and fit plan, rather than upon a cut and dried plan. They modeled their organization somewhat after one across the river in Marion county, Missouri, but the conditions were somewhat different so that a lot of their problems had to be worked out for themselves. In the summer of 1919, County Agent, E. W. Rusk, formerly the county agent of Adams County, called together some men to talk over the question of a livestock shipping association. At the first

two meetings they did not come to any agreement. The third meeting the number had dwindled down to twelve. It seemed as if they might be losing their pep but they did not as the twelve were determined men who wanted to see the work make progress.

C. C. Mast, a young man who had been shipping apples and fruit but with no large amount of experience in shipping livestock, put in application to this group of men for manager of their organization. They hired him and set him to work. The results have been due to his efforts, those of County Agent F. A. Gougler, who took County Agent Rusk's office, and a large group of men who were determined to put livestock shipping on a better basis.

The first three months Mr. Mast spent his time driving in the day time to see and talk to farmers about the shipping association and then used the telephone at night to try to collect up carloads of stock for shipment. Between two and three hundred joined the organization before any carloads were shipped out. The first shipment started in September, 1919.

Appoint Assistant Manager

The first assistant manager was appointed at the small town of Fowler, a few miles out of Quincy. The county manager had two carloads of stock ready for shipment the same day but they were thirty-two miles apart. He paid a man who had been helping him \$4 a day to help load the stock. Later he had this man help load several cars in this way. They found however, that such a system did not work satisfactorily because the local men could more efficiently get in touch with the stock to ship than the county manager so a new plan was put into operation whereby the local manager would get three-

fourths of the returns and the county manager one-fourth. When this plan was first put into operation, some of the local shippers received more than the manager but he was satisfied as he wanted to build up a big county organization.

At first the local managers were appointed by the county manager but as the work progressed meetings were held and the entire proposition talked over and a local committee appointed to co-operate with the county manager in appointing a good man to take care of the local business. But even this scheme did not always work successfully, for at one place in the county a man who apparently suited everybody was selected who shipped only seven cars in the first seven months. This did not satisfy the county manager or the people, so he was changed and a new manager appointed who shipped 53 cars during the months of November and December.

The charges for shipping are 8 cents per hundred, 1 cent of which goes into a contingent fund, to pay for telephone, stationery, stamps, and similar expenses; 7 cents of which goes to the managers, three-fourths of the 7 cents going to local managers, and one-fourth to the county manager. An insurance fund has been charged during the past year on a basis of 5 cents for hogs, calves and sheep and 2 cents for cattle. On account of the short shipment to the St. Louis market the losses have been very low and this insurance fund is being cut down this coming year to 3 cents for hogs and sheep, and 1 cent for cattle. Out of the reserve of almost \$2,000 that has been accumulated they are going to put an engine at every station to pump water.

Branch of Farm Bureau

The Adams County Shippers' Association is one of several subsidiary organizations to the Adams County Farm Bureau. The outstanding reason, as given by County Agent Gougler, for organizing such an organization has been to put the shipping of livestock on a business-like basis. Some have thought that the main purpose has been to put the professional shipper out of business but in reality this is not the case, for as a rule these men have not overcharged for their services but they have failed to render ade-

(Continued on page 14)



Co-operative scale house and headquarters of one of the local points in Adams County, Illinois.

Position of Spring Wheat in Michigan's List of Grain Crops

Best Variety of Seed to Plant, Where Best Grown, When to Plant and How to Prepare Ground for Seed

By J. F. COX

Professor of Farm Crops, M. A. C.

"OLD-TIMERS" state that in the early days of the development of Michigan spring wheat was very widely grown, especially in newly cleared areas. When agriculture became more settled, winter wheat very largely replaced spring wheat, because of its better yielding ability.

During the war there was a great revival of interest and increase in acreage of spring wheat, but it seems as though this increased acreage will soon be replaced by winter wheat and oats and barley. Even in the Upper Peninsula winter wheat is gaining headway because of its superior yielding ability in many localities.

In answer to the war demand, production was increased from 12,000 acres in 1917 to 85,000 acres in 1919. In 1920 this acreage has returned to 48,000 acres. It is very likely that during the coming year spring wheat will return to almost its pre-war acreage.

During the years of 1917 and 1918 the exceptionally cool, moist growing seasons favored the crop, and the average yield per acre for both these seasons was about 18 bushels. In 1919 and 1920 the yields dropped to 11.2 bushels per acre for 1919 and 10

bushels per acre for 1920. As compared to winter wheat production in Michigan, the yield per acre is much less, the average yield of winter wheat for 1919 being 20.3 bushels and for spring wheat, 11.2. In 1920 the winter wheat yielded 15.6 bushels and spring wheat 10 bushels.

Generally speaking, Michigan is not particularly well suited to the widespread production of spring wheat, this crop being greatly affected by summer drought, and under average conditions winter wheat is to be preferred. However, during periods of great need for wheat, our acreage could be markedly expanded. The regions best adapted to spring wheat production are north-central and northern Michigan. Spring wheat does best on a fertile loam or clay loam well supplied with organic matter and retentive of moisture. In such sections in the Thumb region in Central Michigan and in the north central and northern Michigan the production of spring wheat gives best returns. In southern and central Michigan, spring wheat is not so well adapted.

The Marquis variety is conceded to be the outstandingly best variety of spring wheat, from the standpoint of both quality and yield. The Wisconsin Blue Ribbon, a pedigreed variety from the Wisconsin Experiment Station, apparently yields almost as well in several northern Michigan counties.

Seed should be planted on a firm, well worked, seed bed. Land which was in corn, beans, beets, or potatoes the year previously can be well prepared by a thorough discing. If land is plowed in the spring, it should be plowed to a medium depth and thoroughly rolled or firmed with cultipacker.

Spring wheat should be planted as early as possible in late March or early April. Early plantings have a much better chance for success than those planted at a later date. The use of 200 or 250 pounds of Acid Phosphate per acre at planting time will give excellent returns, both in increasing yield and hastening maturity. Spring wheat is usually planted at the rate of 6 pecks per acre and the seed should be given the usual formaldehyde treatment to prevent smut. Clover grass seeding should be made in the same manner as with oats or barley.

Common Tractor Troubles and Their Remedies

A Few Helps That will Save the Inexperienced Tractor Operator Time and Money

By DANIEL PROWANT, Business Farmer

MOST OF the tractor troubles met with are caused by carelessness or by the owner overlooking small matters in the way of keeping the ignition and fuel feeding systems in proper working condition. Some of these trouble-makers, which I shall explain in detail, look insignificant to the inexperienced operator, but they make a world of difference in the operation of the motor, and in the amount of work that can be accomplished. The motor and magneto on a tractor have about the same relation that the heart and brain have in the human system, and the tractor cannot make good unless they are kept in perfect condition.

One of the most common causes of tractor troubles are bad valve settings. Valve troubles can be readily detected by the peculiar open sound of the explosions, the motor shows loss of power and heats up badly. If it is the exhaust valves that are leaking it will be very evident by the blue smoke being blown out through the carburetor instead of passing off through the muffler. This should be remedied at once, as it is quite dangerous. The fire from the exhaust being blown into the carburetor often ignites the fuel there and sets the machine on fire. Unless this is put out at once it will spread to the fuel tanks and the machine will be ruined. The proper thing to do is to take off the cylinder head and grind the valves. If they are badly pitted a coarse grade of grinding compound should be used until the valves are nearly seated, and finish the job with a fine grade of compound. It is necessary to grind until the valve setting shows a bright and unbroken ring entirely around it.

To get the best results, all fuel used should be filtered. Somewhere between the fuel tank and the carburetor will be found one or more globe valves in which will be found a screen to prevent any sediment or other foreign substance from reaching the carburetor. These frequently get plugged up and it will be noticed that the motor will work perfectly for a short time after starting, then gradually loses power and stops entirely. The screen in this case is so nearly clogged up that a sufficient amount of fuel does not reach the carburetor to keep up the speed of the motor. The globe valve must be taken out and the screen thoroughly cleansed.

Water sometimes gets into the carburetor



Be sure everything is adjusted right on your tractor before beginning your spring's work.

in spite of the owners best efforts to keep it out. Sometimes when the fuel tanks are only partly filled and the machine is not in use for some time the tanks will sweat and form enough water to get into the carburetor and cause trouble. Trouble of this kind can usually be distinguished by the motor spitting back continually, causing loss of power. On most tanks there is a drainage cock at the bottom, and if the owner will open this up for a second or two just before starting, and also open up the carburetor long enough to allow the fuel pipe line to drain, he will avoid most of this trouble.

Ignition Trouble

There are many different forms of ignition troubles, and they are all so nearly alike in the effect they have on the operation of the motor that it is almost impossible to tell just where the trouble lies without a careful examination. On most magnetoes there is a small breaker box on one side covered with a cap about one inch or more in diameter, which contains the platinum sparking points. These points get pitted or corroded after much use and the result is a very weak spark and sometimes no spark at all, making the motor very difficult and sometimes impossible to start, and giving poor service when started. These points should be taken out and dressed with a fine file. A steady hand and a good eye is necessary for this job. The points must be filed perfectly flat so that they will make a perfect contact, and everything must be replaced exactly as it was taken off. The points need only to be filed enough to take off all corrosion or pit marks, and they should be properly adjusted when re-set. The adjustment in this case needs to be rather close, not more than 1-32 of an inch.

Continuous missing fire in one or more cylinders is usually caused by filthy or broken spark plugs either too wide or too narrow, or by broken or defective wiring. Raw wires, allowing the current to short circuit to some part of the motor will sometimes cause this, but if this is the case the engine will usually kick backwards when being started. The spark plugs should be taken out and cleaned frequently with gasoline, and if the plug can be taken apart it can be cleaned thoroughly. The sparking points on the plugs should be adjusted after each cleaning, the thickness of a worn ten cent piece being about the proper clearance for spark plug points. The plugs should be examined closely for defects, as a very small crack in the insulation is sufficient to allow the current to get through.

Carbon deposits in the cylinders is a very annoying and quite common cause of tractor trouble and is more common in tractors having an overhead exhaust than on those where the exhaust is below or at the side. This form of ignition trouble is not noticed on a cold motor. After the motor gets thoroughly warmed it fires irregularly, heats up, shows loss of power, and if cranked when hot will back fire. This is caused by the carbon deposits becoming red hot and firing the charge prematurely. The cause of these carbon deposits is using too much cylinder oil, or using a grade not suited to that type of motor. It can be gotten rid of by taking out the spark plugs and pouring about one pint of kerosene in each hole letting the motor stand over night after this is done. The kerosene loosens up the carbon, and it will be blown out through the exhaust when the motor is started the next time.

Defective wiring often causes trouble. It is noticed by missing fire in one or more cylinders, loss of power, irregular firing, and the motor will kick back when starting. It may be caused by the insulation being worn off the wires, or by not being properly rewired at some time when the wiring was taken off; or the wire may be broken somewhere inside the insulation, making a new wire necessary. If it is caused by the wires not being put on properly it will be necessary to determine the order of firing in the cylinders in order to get the wires to their proper place if they are all of the same color and have no marks by which they can be identified.

Doublin' Yield of Wisconsin Truck Garden Through Irrigation

Arid Regions Not Only Sections of United States Where Overhead Irrigation Can be Used Profitably

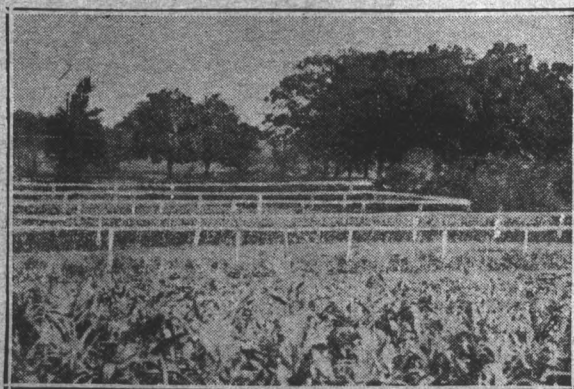
TWO TOMATOES will grow on an irrigated plot in Wisconsin to each one that grows on unirrigated land. This is shown by experiments.

But, someone immediately protests, Wisconsin is not in the dry country, it has a normal rain fall. Very true, but the experimental work as carried on there for several years by a commercial truck gardener acting for the Department of Agriculture, shows that it pays, and pays well, to irrigate crops in regions not regarded as arid. The spray or overhead irrigation system used in the work.

In 1920, onions, on a special check plot under irrigation, yielded 235 more bushels per acre than did a nearby plot of the same size, which was unirrigated but in other respects handled in exactly the same manner. The irrigation water cost at the rate of \$5.46 per acre. Did irrigation pay?

For the last seven years this gardener's commercial irrigated onion field has yielded an average of 131 bushels per acre more than the unirrigated check plot which has been operated on similar land nearby.

The highest cost of irrigation water used on onions in any one year was \$12.35 per acre, while the average annual cost was \$8.67 per acre. This irrigator, it should be noted,



System used on the Wisconsin truck farm.

is able to purchase water delivered by town water mains. It is delivered under a good pressure, 60 pounds to the square inch, and he thus avoids the inconvenience of operating his own pump and the investment in a well or other water supply.

The tomatoes grown under spray irrigation in 1920 produced 53,900 pounds per acre, the crop was early and was of excellent size and quality. The average yield of tomatoes for the last five years, under irrigation, has been 41,240 pounds (more than 20 tons) per acre. The average annual cost of

irrigation water during this period was \$11.56 per acre. The heaviest charge for water used in any one year on tomatoes was \$20.25 per acre, but fortunately that occurred in a year when a crop above the average was produced. The minimum yield occurred in the cold season of 1917, when 11,900 pounds per acre were harvested. In that year the quantity of water used was so small that it cost but \$4.03 per acre. The figures given for the irrigated tomatoes refer to a commercial field and not to a check plot.

Other truck crops made equally good returns under irrigation. The record for 1920 shows 1,569 quart boxes of raspberries were the per acre yield under irrigation, and 1,738 quart boxes in 1919. The picking season for the berries was at least 10 days longer than for unirrigated berries in the vicinity.

Under irrigation, early table carrots for bunching were ready for market 4 weeks ahead of any that were not irrigated. Following the carrots, a crop of muskmelons was produced on the same area, under irrigation, and yielded 2,910 melons before the vines were killed by frost. Practically all the fruit that set matured that year. Only a very few melons ripened at all on the unirrigated check plot before frost.

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The Government As a Competitor

NO ONE can estimate the terrible price which the farmer will have to pay for his war-time prosperity. The past few months have revealed a few of the evils of war-time demand and war-time prices, but not all. Other disclosures are to follow, and it may be years before the farmer will know the actual extent of the injury which the war has wrought upon his business.

Since the close of the war the government has been one of the farmer's most active competitors. Cessation of hostilities found the army and navy loaded up with enormous supplies of canned food products. For two and a half years these goods have been flowing into the channels of trade competing with the wares of the farms. Nor is the end in sight. As recently as last week the quartermaster's department of the U. S. Navy advertised canned foods for sale in many leading newspapers of the country. This takes no account of the vast, but unknown, quantity remaining in the hands of private dealers who bought from the government at a large discount shortly after the war, and were caught holding the bag when the bottom dropped out of the food markets. It recently came to us that a Chicago speculator had already lost five million dollars on his purchases from the government and was offering the balance of his stock for sale at the following prices:

Twenty-eight cars of canned beef, at 13 cents per 12 oz. can, in carload lots delivered anywhere in the United States.

Three hundred cars of bacon, at 18 cents per pound in carload lots, freight paid to any point in the United States.

Six carloads of sweet cider, sterilized and filtered, from Michigan apples, at \$4.50 per dozen cans of slightly less than one gallon capacity.

These facts suggest that the unprecedented crash in food prices may not have been altogether the result of foreign-trade and exchange conditions.

The Lobbyist

SENATOR Duncan McRae sought to turn the spotlight on the professional lobbyists who infest the state capitol at Lansing, by introducing a bill requiring all such gentry to register and state the name of their employers and the amount of salary received for their work. The bill was a good one and should have passed but it met with the united opposition of the reactionaries of the senate and was defeated.

The professional lobbyist is as a rule a creature of dwarfed principles. In the majority of cases he is a lawyer, who prefers to earn his living by his wits rather than by honest work, or perhaps an ex-office holder who has given up all hopes of ever again receiving favors at the hands of the voters. The professional lobbyist will sell his soul for a price. The value of his services to his employers is measured by two yardsticks. The first of these is his willingness to surrender

his manhood into the hands of his employer. The second is his ability to cajole, deceive and influence the legislators whose votes he seeks in the interests of his employer. Some few men lobby for or against legislation because they are good citizens and believe that the adoption of certain legislation is to the benefit or injury of the state. But the vast majority of those who appear in the legislative halls at Lansing and button-hole the members of the legislature are men who are paid to go there for that purpose and whose moral convictions have been stunted for a wage.

As a rule the professional lobbyist works in the dark. If he is to be tolerated at all for the sake of good government let us put him in the limelight where all eyes may behold him and his works.

"Banditry Must End"

SO SAYS the Governor, and all Michigan echoes "amen." But banditry will never end so long as positions of police authority are occupied by spineless men who surrender their duties to whiskerless and irresponsible youths in uniform. We have had the state police for about two and one-half years. Despite this addition to our law enforcement machinery crime has never been so prevalent or shocking as during this period. We do not mean to imply that the state police have been responsible for the increase of crime, but we do mean to charge that they have not been able to check crime. Being in uniform the state police are conspicuous objects upon the highway or in the village, and the law violator is able to keep track of their whereabouts at all times. Instances are rare if not entirely lacking of the state police surprising transient criminals at work, and the number of apprehensions of bank robbers and murderers by members of the state police are negligible. The police have proven their ineffectualness in coping with the crime situation and common sense and economy demand that they be legislated out of existence and the duties they have been attempting to carry out restored to resident civil officers and inspectors of the new public safety department. Then if the Governor will force these men to do their duties we may have some hope of once more controlling crime in our fair state.

One-Man Government

THE STATE Democrats who must find some flaws in the present state administration profess great alarm over the way in which Governor Groesbeck is directing the course of legislation and centralizing executive power in his hands. It is true that the present governor enjoys more power than any of his predecessors of recent memory. His program of consolidation and centralization which apparently was mapped out in his shrewd mind long before he took the governor's chair has been put through by a docile legislature without a single hitch. Ere the legislature adjourns his administrative board, over which he rules supreme, will have been delegated with almost unlimited power over all state business.

Heretofore the governor of Michigan has been chief executive in name more than in fact. In view of the mediocre calibre of some of our governors, it were well that power was denied them. Some of these governors have been acceptable figure heads, but woefully unfit to carry on the business of so great a corporation as the commonwealth of Michigan. But the man who occupies the governor's chair today is a man of real ability who has a practical program for consolidation, economy and taxation. Every step which he has taken so far to put his program into effect has commended itself to the legislature and to the private citizens who have given it any thought.

The best government is the one in which responsibility rests upon the fewest heads. With proper legislative checks a few can administer the executive details of a government far better than many. Great power is like dynamite in the hands of unscrupulous men, but in the hands of a born executive like Alex Groesbeck it is safe to assume that it will be intelligently directed for the glory and benefit of the state.

The World's Meat Future

WILL EUROPE continue to be a consumer of American food products or, firm in her determination to make herself self-supporting, is she slowly closing the doors against the American farmer? These and divers other questions relating to the future world's demand for food products are a source of great perplexity to the leaders of American agriculture. Some curtailment of European buying must be expected. But how far will this go and what effect will it have upon the future prices for the products of our farms? A slight reduction in Europe's needs should not cause American farmers any concern, but a concerted European policy to stimulate their own agriculture to a point where it will virtually take care of Europe's needs, would be a most serious blow to American agriculture and make it necessary for a drastic revision in our production. An interesting sidelight is given upon one phase of the future European demands in the following brief statement which is taken from the World's Markets:

"A prominent English statesman said recently in the House of Lords that there was reason for anxiety in regard to the future meat supply not only of the United Kingdom but of the world. He estimated that Europe would need to import, after the war, from sixteen to twenty million head of cattle."

Publicity for the Farmer

FORMER SECRETARY of Agriculture Meredith devoted the major part of his energies while in office to "selling" the department of agriculture to the people of the cities, hoping that through this medium they might take a more intelligent and sympathetic interest in the problems of the farmer. This policy was in striking contrast to that of Houston, Meredith's predecessor, who not only failed to enter into any public discussions of the farmer's problems, but on the contrary, so it seemed, took a position which placed agriculture in a most unfavorable light before the general public. Fortunately the new Secretary of Agriculture, Henry C. Wallace, seems inclined to follow the Meredith policy, and in his first official pronouncement to the public he quite frankly discusses the deplorable condition of agriculture and insists upon a fair appraisal of the farmers' situation. The education of the city people has too long been neglected in matters of this kind. It is time for them to be enlightened, and the department of agriculture is the instrument for the job. By persistent hammering the time may come when the people of the cities will have a true understanding of the problems of those who produce their food.

Grain Exchanges and the Farmer

"PERNICIOUS legislation," is what a Kansas City speculator calls a measure that has been introduced in the Kansas legislature to declare grain exchanges open markets and force them to admit farmers' co-operative companies into their membership. It has never been clearly explained to farmers why their co-operative companies are barred from membership in grain and livestock exchanges. The logical conclusion is that the members of these exchanges wish to put co-operative companies at a disadvantage in the hopes of crippling the co-operative movement which bids fair to put the skids under the age-old methods of marketing.

Newspapers of the state which have been backing the State Police are trying to excuse the shooting of an unoffending citizen of Williamston, Ingham county, by a member of that military organization. The excuse is that no organization should be held accountable for the act of a single irresponsible member. Has it not occurred to these editors that the very nature of the state police is such that its appeal is mostly to young men who are temperamentally unfit to exercise authority over others? Have they not learned that there is nothing more autocratic, arbitrary and irresponsible on the face of the earth than a military body free from discipline? That is virtually what the state police are. Each member is virtually an authority unto himself, and the history of the police in other states is a history of authority abused, assaults upon innocent citizens, and violation of their constitutional rights. Why should we expect its record to be any different here in Michigan?

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What the Neighbors Say

INJUSTICE OF SUNDAY LAWS
REGARDING the activities of the Sunday law reformers to bring about a more rigid enforcement of such laws, let me say that religion as an action of the mind, a matter of faith, is beyond the power of law to give or take away, but it is possible for civil government to interfere with the exercise of that faith.

No human power can prevent one believing that the seventh day—Saturday—is the Sabbath and the only day that should be regularly observed as a day of sacred rest. But it is possible to fine or imprison one who reduces his faith to practice by resting only upon that day. If a law were enacted compelling all to rest on Sunday, allowing the Sabatarian to rest also on the day of his choice, it would be depriving him of one business day each week; in other words, fining him one-sixth of the working time for the privilege of exercising religious freedom. To prevent such persecution, the Constitution was made to forbid the enactment of any law "respecting an establishment of religion," or interfering with "the free exercise thereof." The Constitution was made to safe-guard the fundamental rights of citizens, even should a majority arise against them. For a while the majority should rule in all matters of public business and policy relative to man's duty to man, yet no majority, however great, can alter a fact, create a principle, or coerce the conscience. If the will of the majority, because it is the majority makes wrong right, then the broad road that leads to death and destruction becomes the highway of life when overwhelming majority goes that way.—A Lover of Liberty.

While it is hardly likely that the advocates of "blue Sunday" laws have taken into consideration the effect these laws would have upon those who observe Saturday as the true "Sabbath," it is certain that the adoption of the proposed laws would be a serious interference with the constitutional rights of the Sabatarian observers. The motives of those who seek by law more rigid observance of Sunday as the "Lord's day," are beyond question. But the methods which they would employ can never be adopted.—Editor.

DOES CO-OPERATION PAY?

THE PAST few months have been full of agitation along the line of bettering the farmers' condition both social and financial. We are asked to give time and money in support of many schemes to attain perfection in co-operation. How it will all end no man can say. Personally I think the man who has plenty of money to get the things he needs will usually handle his farm and business first rate himself. Therefore the greatest efforts should be directed toward helping him to realize more cash. So far it seems as though the efforts now being made cross in so many places and we are burdened with so many useless officials that in the end the results of buying and selling through the various associations, etc., leave no more cash on hand than we ever got. I know the men at the head of these various methods will say I am wrong and try to prove that we really get more out of our products, but I know that it isn't so. Perhaps some day we may, so far we haven't, all things considered.

The main purpose of my letter is to call your attention to the seed potato swindle. You know how the college men, the county agents and the Michigan Potato Growers' Exchange are booming the seed potato business. It seems to be the larger stock in trade to boom. Something all the time that only a few are supposed to have and that every one else ought to get. The claim at present is that we should all raise Petoskey Golden Russet potatoes, and that those who need seed should get certified seed, the same being seed grown from fields that have been twice inspected for disease and the tubers again inspected in the bin thus insuring a pure seed. Those who need seed are now being asked to pay \$1.50 or \$2.00 per bushel for this certified stuff. Now, I don't mean to say this seed isn't good, for it is. But the claim that it is worth

such money is all bosh. If we are going to be one large family of farmers striving to aid each other, why impose on those who must purchase seed potatoes or any other seed, in the effort to gain an unreasonable return for the man who grew it. First of all, so far as the certified seed potatoes that I know of, they have been grown in the same manner and at the same cost as other potatoes around here. It is true that they should bring a few cents more than other seed, probably 25 cents per bushel. The field inspection, once instead of three times, as they say, is paid for by state funds as I understand it, therefore the buyer stands a share of it anyway. The grower of this seed is to no more expense than any other grower. Such extra work of weeding out diseased plants as may be done has its own reward and many do it that do not have the fields certified. I had last fall and still have several hundred bushels of potatoes that sell for 15c to 40c per bushel that are just as good seed as any certified stuff in Cheboygan county and there are others here in the same fix. Of course there are many fields of potatoes that are so full of disease they are worthless for seed. However, nobody need be held up for \$2.00 seed if they will nose around a bit. I don't call it co-operation, do you?—Clare D. Scott, Cheboygan County, Mich.

Don't think that you are the only farmer who has ever asked himself the question, "does co-operation pay?" Many others have puzzled their brains over the same question. The direct benefits of co-operation have undoubtedly been over-estimated. The indirect benefits have been under-estimated. The American co-operative movement is still in its infancy. It's had a hard time a-borning. Its charms have been sung forth to the world by an admiring army of cousins and aunts and uncles and nephews and friends who perceive no imperfections in the infant. But its got to grow into stalwart manhood before it can justify its birth. Have patience. Out of the nebulous theories of yesterday there is gradually taking form a concrete, practical plan of co-operation which if given half a chance must become a powerful economic and political factor in agriculture. About those seed potatoes. The College will co-operate with any farmer in Michigan who wants to grow certified seed potatoes. The prices look fancy. I'll admit, but if the growing of certified seed is actually a highly profitable business at these prices, competition would soon force the price down. The fact that few farmers care to go to the trouble and expense of growing certified seed, preferring to buy their seed, seems to show that they do not consider the prices charged excessive. Have you not also considered that the high prices charged by the College are really a help instead of a hindrance to farmers who have seed that is "just as good?"—Editor.

MR. CRANDALL VS. MRS. J. R.

I AM VERY much interested in the facts disclosed in this article, as a breeder and shipper of pure bred hogs for 15 years and for three years secretary of the Michigan Berkshire Breeders' Association. I have had some experience in troubles with barren sows.

As a rule the breeder is far more liberal than the purchaser, for the breeder has his reputation at stake and if a good sincere character will back his reputation to the limit.

I think it should be a fast rule with all breeders that in event that an animal should prove out barren after sale, that the breeder should take back the animal and refund the money to the amount of the purchase price, or order the animal sold on the block, tendering the purchaser the difference between the meat price and the purchase price. I will admit that the purchaser has been to a loss of time and some damage in the case, but if a square dealer they will be willing to offset their inconveniences with those of the breeder.

A breeder never loses in the long run by going a little more than half way to make good an adjustment of this nature.—Chas. B. Scully, Lapeer County, Mich.

We are certainly glad to have Mr. Scully's approval of our insistence that Mr. Crandall should settle with Mrs. R. At no time has Mrs. R. claimed compensation for feeding the barren sow, but simply that the money which she paid for a sow guaranteed to farrow be returned to her. It is hardly necessary to suggest to our readers that they should proceed with caution in dealing with Mr. Crandall unless he refunds Mrs. R.'s money.—Editor.



Whistling for "more grain" at threshing time always means plenty of power—power that's waiting for its load—full of pep—ready to keep the wheels turning and grain moving hour after hour until the job is finished. That's the kind of power your thresherman brings in his outfit hooked up to a

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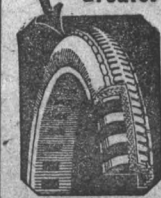
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CREAM FARMERS

If you have cream to sell write or call us as our proposition should interest you. JACKSON FARM PRODUCE CO. Jackson, Mich.

LITTLE LIVESTOCK ADS. IN M. B. F. DO THE TRICK

ANSWERS TO OUR CORRESPONDENTS

TO MRS. B. and others: It has occurred to me that the information I procured, in answer to your letter, on drapes and curtains, might be useful to others and so in addition to the letter and samples, I mailed you, will answer your inquiries in this department.

Ruffled curtains of net or marquisette of ivory-white are much used in the windows of bungalows, suburban and country homes, they are especially good for narrow windows, for being tied back they do not obstruct the view. For the larger windows the same material is used but hemmed and hung straight with a 2 inch hem so that the curtains may be reversed. For a formal room the windows may be hung with pongee with fringe across the bottom, a very good quality may be purchased for \$1.25 to 39 cents a yard and it runs about 33 inches wide. Pongee is also much used for hangings on French doors. If you have a down stairs bedroom with an arch between it and the living room, French doors are very pretty and convenient. They may be made to hinge in the middle so that each door may fold back on itself and take up little room when open. They are also considered very good between dining-room and living-room.

A mercerized material called sun-fast is also good for drapes and a bit heavier than pongee. It costs from \$2.00 to \$3.00 per yard and is 40 inches in width.

Neutral shades are very much used with no decided difference between the rooms if the house is small. A few pictures hung low, soft lights and easy chairs. How we like to picture the house of our dream and not necessarily expensive but comfortable and artistic. Well you know "Without a vision the people perish." I like that quotation, it means so much. We need ideals and we might just as well work for something fine and satisfactory as to let accident rule our decisions and spend our money for things that really never satisfy.

Do any of you readers know of a vacuum sweeper that is practical without the use of electricity? If so will you kindly write about it for this department?

EASTER

By Lillian Hall Crowley

The Golden Fairy of Easter Day
Is greeting us on her joyous way.
The sun bursts forth at her beckoning hand,
And the buds come out as she waves her wand,
For Christ the Lord is risen today!

DEAR CHILDREN: I suppose you are planning on eating eggs and having a great time Easter. Have you and your mamas colored lots and lots of eggs? When I was small my mama would take a great many, make a small opening in one end, let the white and yolk run out of this hole and then put the empty shells into coloring and color them for me. She would make them many different colors and after they had dried I would poke a hole in the other end with a needle and then string them all on strings and hang the strings full of eggs up on the wall. I am not going to write any more as we have only a small amount of space this week and I wish to use it for letters. Sorry we have had to leave out the Doo Dads. They are also sorry and have asked me to tell you all that they will try and see you next week. Goodbye.—UNCLE NED.

OUR BOYS AND GIRLS

Dear Uncle Ned:—I have read many of the letters sent to you by other girls and boys and thought I would write too. I am a girl eleven years old and in the sixth grade at school. I live on a one hundred acre farm, one-half mile from town and one mile from school. I have one sister. I like to read The Children's Hour and look forward to it every week. I have quite a few pets: one dog named Sheep, and three cats named Snowball, Katie and Oscar. I wish some of the girls would write to me and I will answer them all.—Thelma Bigler, Unionville, Mich., R. F. D. 4.



The Farm Home

A Department for the Women

Edited by MRS. GRACE NELLIS JENNEY.

Easter Hymn

Sung by Jerome of Prague at the Stake

WELCOME, happy morning age
to age shall say
Hell today is vanquished, Heaven
is won today.
Lo, the dead is living, God for ever-
more!
Him, their true creator, all His
works adore.

Earth with joy confesses, clothing
her for spring,
All good gifts returned with her re-
turning King.
Bloom in every meadow, leaves on
every bough,
Speak His sorrows ended, hail His
triumph now.

THE STORY OF THE RESURRECTION

IN THE END of the Sabbath, as it began to dawn toward the first day of the week, came Mary Magdalene and the other Mary to see the sepulchre.

And, behold, there was a great earthquake; for the angel of the Lord descended from heaven and came and rolled back the stone from the door, and sat upon it.

His countenance was like lightning, and his raiment white as snow; and for fear of him the keepers did shake, and become as dead men; and the angel answered and said unto the women, "Fear not ye; for I know that ye seek Jesus, which was crucified; He is not here; for He is risen, as He said. Come, see the place where the Lord lay. And go quickly and tell his disciples that He is risen from the dead; and, behold, he goeth before you into Galilee; there shall ye see him; lo, I have told you." And they departed quickly from the sepulchre with fear and great joy; and did run to bring his disciples word; and as they went to tell his disciples, behold, Jesus met them saying, "All hail." And they came and held him by the feet and

Maker and Redeemer, life and health of all
Thou from heaven beholding human nature's fall
Of the Father's Godhead, true and only Son
Manhood to deliver, manhood didst put on.

Thou of life the author, death didst undergo
Tread the path of darkness, saving strength to show
Come, then, true and faithful now fulfill thy word
'Tis thine own third morning, rise my buried Lord.

—Venantius Fortunatus.

worshipped him. Then said Jesus unto them, "Be not afraid; go tell my brethren that they go into Galilee, and there shall they see me." Now when they were going, behold, some of the watch came into the city and shewed unto the chief priests all the things that were done; and when they were assembled with the elders and had taken counsel, they gave large money unto the soldiers; saying, "Say ye, His disciples came by night, and stole him away while we slept; and if this come to the governor's ears, we will persuade him, and secure you." So they took the money and did as they were taught; and this saying is commonly reported among the Jews until this day; then the eleven disciples went away into Galilee, into a mountain where Jesus had appointed them. And when they saw him, they worshipped him; but some doubted; and Jesus came and spake unto them, saying, "All power is given unto me in heaven and in earth. Go ye therefore, and teach all nations, baptizing them in the name of the Father, and of the Son, and of the Holy Ghost; teaching them to observe all things whatsoever I have commanded you, and, lo, I am with you alway, even unto the end of the world. Amen."

RECIPES TRIED AND TRUE

Modern Chicken Pie

REMOVE meat from a well-cooked chicken, cut it in pieces the size of a large teaspoon, butter a three quart pudding pan, add to it fifty potato marbles that have been steamed until done, then add chicken meat and the whites of six hard-boiled eggs cut in rings, the yolks cut in two and the mushrooms from one can.

Into a double boiler put the liquor from the mushrooms, one cupful of strong chicken stock and one pint of milk; season well with pepper and salt and thicken with three tablespoonfuls of flour, stirred to a smooth paste.

When well-cooked, turn over prepared chicken, eggs, potatoes and mushrooms seeing there is sufficient sauce to cover, place in oven to become hot.

Bake some small baking powder biscuits, cover top of hot mixture, and serve immediately.

Cocktails

For a small dinner party a fruit or oyster cocktail makes a very tasty first course. Cocktails should be served in small high glasses that come on purpose and with salted wafers as an accompaniment.

Fruit Cocktail

The pulp of 2 grape-fruit and of 3 oranges, 1 banana cut fine, about 4 slices of canned pineapple cut fine in small cubes and the cherries from a small bottle of maraschino cherries. The liquor should be saved for a jello dessert. Take the other fruit juices add a little sugar and the juice of 1 lemon and put a couple of tablespoonfuls over the fruit in each glass. This quantity will serve 8 to 10 people.

Oyster Cocktail

Put 4 or 5 oysters in each glass cover with the following sauce, all should be very cold.

To 1 bottle of tomato catsup add 1-2 cup fresh grated horse-radish and the juice of 1 lemon.

HOW TO REMOVE STAINS

Acids—Touch spots with Ammonia.

Alkali Spots—Touch with lemon juice, vinegar or tartaric acid.

Blood Stains—Soak in cold salt water, then wash in warm water using plenty of soap.

Chocolate and Cocoa—Wash with soap in tepid water.



The Children's Hour

Dear Uncle Ned:—I wonder if I could join this merry circle? I like to write letters so will write one to you. I am 11 years old and in the 7th grade at school. I have never been late at school in any school term. Father takes the M. B. F. and likes it fine. I like to read The Children's Hour. I have one cat for a pet. I don't have many because I live in town and haven't any place to keep them. I like to spend my time at school and coasting. I like to play basketball too.—Corinne Costello, Tustin, Michigan.

Dear Uncle Ned:—I am a girl eleven years old and in the seventh grade at school. For pets I have some chickens and a white Angora cat whose name is Queen Anne. I have two sisters and three brothers. My father takes the M. B. F. and likes it very much. I always read The Children's Hour and that I would write. I would like to receive letters from other girls and boys.—Esther Brainard, 1702 Highland Ave., Kalamazoo, Michigan.

Dear Uncle Ned:—I just got through reading the letters of the M. B. F. and thought I would enjoy writing myself. We take the M. B. F. and like it fine. I have written to you before and received on letter from a girl, but wish to get more letters this time from boys and girls both. I am between the ages of 13 and 16. Anyone guessing my age correctly will receive a card or letter from me. Don't be afraid boys and girls to write.—Marie Blatt, Brown City, Michigan.

Dear Uncle Ned:—As I have not seen any letters in the M. B. F. from the Sears boys and girls, I thought I would write. I live on an 80 acre farm. We have 5 horses, 2 cows, 1 calf, 7 sheep and about 50 chickens. For pets we have a dog. I have 5 brothers and 4 sisters. I am 14 years old and in the eighth grade. I have two miles and a half to go to school.—Marie Sprague, Sears, Michigan.

Dear Uncle Ned:—I am a boy 12 years old and in the 6th grade at school. I live on a farm of 320 acres. My father

has a tractor and I like to run it. We have 6 horses, 15 cows, 16 yearlings and 12 calves. I read about the Doo Dads in The Children's Hour and like them fine. I wish to hear from some of the girls and boys.—Robert Jones, Deckerville, Mich., R. F. D. 4.

Dear Uncle Ned:—I am a girl eight years old. We live on an eighty acre farm. I have a mile and a quarter to go to school. There are seven children in our family; five girls and two boys. My baby brother's name is Ray and he likes the M. B. F. as well as the rest of the family.—Leone Duffy, Caseville, Michigan, R. F. D.

Dear Uncle Ned:—How are you? I am a little farm boy, 10 years old and in the fifth grade at school. I live on a fifty acre farm. We have five cows and two horses. For pets I have a dog. His name is Trixie, and a Shetland pony and a bantam hen. I have lots of fun with my pony. He ran away with me once.—Conrad Wick, Wheeler, Mich., R. F. D. 3.

Dear Uncle Ned:—I am a girl 12 years old and in the 8th grade at school. We live on a farm of 320 acres. We have 10 cows and 15 young cattle, 6 horses, 2 pigs, 2 little pigs and one old one. For pets we have 3 cats named Pussy, Nig and Dolly. I will be glad to hear from anyone who wants to write to me.—Illa Carter, Harrisville, Michigan.

Dear Uncle Ned:—I have just finished reading The Children's Hour. I am a girl ten years old and am in the fifth grade at school. I live on a 200 acre farm. We have 49 hens, 1 pig and many other things. I wish some of the boys and girls would write to me.—Mary Elizabeth Shepard, Holly, Mich., R. 5.

Dear Uncle Ned:—I am a girl 12 years old. I am in the fifth grade at school. I have over a mile and a half to walk to school. My father takes the M. B. F. We all like it very much. I have one sister and one brother. My sister's name is Lillie and my brother's name is Stanley. My brother is married and lives on a farm next to ours. I live on a 40-

acre farm. We have two horses. Their names are Dock and Prince. We have seven head of cattle and also four small pigs and about 75 chickens. For pets I have one big Angora cat. His name is Tommy Tucker. I wish some of the boys and girls would write to me.—Emma Van Sickle, Tawas City, R. 2, Mich.

Dear Uncle Ned:—I hope you will jump over and give room for my letter. I am writing to two girls and hope I can get some more to write to me. I am a girl 11 years old, have brown hair and gray eyes. I live on a homestead farm of 160 acres. I am in the sixth grade at school. We have two cows, two horses, and one calf. For pets I have a dog named Collie—Alma Powell, Box 106, Sidnaw, Michigan.

Dear Uncle Ned:—I have read many of the boys' and girls' letters and that I would take time to write to you. I am a farmer's girl. I live on a 45 acre farm. I am 11 years old. I have one brother and one sister. My brother's name is Clarence and he is 12 years old. My sister's name is Irene and she is four years old. I have one cousin staying with me who is 4 years old. We have four horses. Their names are Mauld, Nell, Skip and Dock. We have 7 head of cattle. I like The Children's Hour very much. My father takes the M. B. F. and likes it fine. For pets I have two rabbits. One of them is all white with pink eyes and the other one is black and white and it has brown eyes. Well I will close for this time. I wish some of the girls would write to me. I would answer them very kindly.—Agnes Golombisky, Corunna, R. 3, Mich., Route 3, Box 62.

Dear Uncle Ned:—Have read the letters of the boys and girls in the M. B. F. and have been interested in them. I thought I would write. I am in the eighth grade at school. Expect to take the examination in May. I have two miles to go to school. My father takes the M. B. F. and likes it very much. We own 160 acres of land. We have 6 horses, 8 cows, 11 younger cattle and 11 sheep. I have three brothers and two sisters. Two brothers are at home and one works at the Buick in Flint. My youngest sister is going to county normal expecting to teach next year and my other is in Battle Creek at the telephone office. My father, mother, two brothers and one sister belong to the Cleaners. I will close as my letter is getting long and will save room for other letters.—Margaret Myers, Ewart, Mich.

Farmers Service Bureau

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

TEXAS OIL PRODUCTS CO.

Will you please give me some information through the columns of your paper regarding the Texas Oil Products Company? Agents of this company are in this locality offering stock for sale. Do you consider them a safe concern and the stocks a profitable investment?—A Reader, Belding, Michigan.

We investigated this company several months ago and at that time the Michigan Securities Commission advised "the Texas Oil Products Company of Chicago, Illinois, was approved by the Commission under date of June 11, 1920. The latter address is given at 848 Book Building, Detroit. We find the company was incorporated for \$850,000.00 with \$148,790.00 issued and outstanding. Total assets of the company \$200,890.00. Permission was given the company to sell \$200,000.00 of its common stock."

Letters addressed to the National Bank and the Guaranty State Bank and Trust Co., of Waxahatchie, Texas, bring us the information that a refinery is being built in that city which will have a capacity of 3,000 barrels per day. The letters are almost identical in tone and wording and are of course, favorable to the oil company. Both of them, however, bear the following reminder, rubber-stamped upon the face of the letters. "This information is given in confidence as an opinion and courtesy for which no responsibility is to be attached to this bank or any of its officers."

So far as we are able to discover the directors of this company are honest and responsible men. The facts seem to show that the company is actually working on its refinery and has satisfactory connections with crude oil concerns. All these facts, however, do not necessarily assure the company of success. The prospective investor should remember that hundreds of keen brains are working upon substitutes for gas fuel, and sooner or later these will be discovered. The effect upon gasoline prices may be readily foreseen. Finally, we question very much the wisdom of entrusting life savings to strange hands to be spent two thousand miles away in a venture which is yet in the embryo. This is a bad time to invest in speculative enterprises, especially when all kinds of absolutely sound securities or going concerns, guaranteeing good interest on preferred stock can be purchased.—Associate Editor.

PAYING THRESH BILL

Will you please tell me when renting my farm and making "only verbal contract and nothing said as to who was to pay the thresh bill, who should pay it, I or the renter, or should each pay his share?—J. N., Blanchard, Michigan.

Under the statement of facts I would be of the opinion that the tenant should pay one-third of the thresh bill.—W. E. Brown, legal editor.

MORE ABOUT U. S. GOLD CORPORATION

Last week we published an inquiry regarding the value of capital stock of the United States Gold Corporation, Boulder, Colo. The answer was a letter received from a bank and trust company of that city. We are now in receipt of a letter from another bank located in Boulder which we wrote to. It appears our letter was turned over to the attorney for the company and he returned our letter with a notation at the bottom stating the stock had no market value.—Associate Editor.

POSTING AGAINST TRAPPING OR HUNTING

If you post your farm against hunting and trapping, how soon does it take effect? How close must you put your signs to make it legal? Has anyone the right to use a ferret except on their own property?—K. E., Fenwick, Mich.

The law provides that no hunting or trapping shall be done on posted land. It would become effective immediately upon posting. The law does not provide how far apart they shall be. A sufficient number to

fairly appraise the public that the premises are posted is sufficient. It is unlawful to use ferrets except on one's own premises unless the township has voted to allow their use and then it would be lawful.—W. E. Brown, legal editor.

ROAD IMPASSABLE

Will you please advise me regarding the closing of a road by a county drain going across the road and taking out the cement culvert, also leaving the dirt piled up in the road for over a year with no chance to get it done until next summer. This road has been a main-travelled road for 40 years, although it runs through the middle of the section and I am the only one who lives on this road. I have a lot of farm produce to market and am obliged to haul a mile around on a very bad road. I sold my hay in the fall at a good price and on account of the roads the other way was unable to get it out. Now the hay market is off from \$4 to \$5 and the buyer will not take the hay, so you can see about the damage it has been to me. Now don't you think I can sue the county for damage?—A. G., Crosswell, Michigan.

I am of the opinion that the public authorities have the right to close a highway under circumstances related. That if circumstances prevented the completion of the work promptly it would not make the county liable for damages. You have undoubtedly suffered great damage but so far as I can see you would be without a remedy. There are many such cases. We have a legal maxim which liberally interpreted from the Latin reads: "A loss for which no recompense can be obtained." I am of the opinion that until the law provides specifically for damages in such cases there can be no recovery.—W. E. Brown, legal editor.

TRESPASSING ON STATE LAND

I own land laying on both sides of some state land and I wish to fence my land so I can pasture it, but if I have to fence it separately what I own on both sides of this state land, it takes so much more wire, so I tried leasing this state land but was informed from Lansing there were no laws giving them authority to lease state lands, but would gladly do so if they had the power. Now if I would run a fence across this state land and by so doing join my two pieces of land and use the whole of it for pasture, could they only hold my fence or what could they do?—A Subscriber, Hardy, Michigan.

There are certain trespasses of state land that are declared by law to be a felony. The only thing I can suggest to you is to make some arrangement with the Public Domain Commission for fencing the land.—W. E. Brown, legal editor.

WIDENING SLEIGHS

Would you please tell me through your paper if there is a law that farmers must widen their sleighs to travel upon the highways?—J. H., Tuscola county.

Public Acts of 1919, Act 73, page 135, provides that after January 1st, 1921, the standard gauge on all vehicles used on the highways shall be 56 inches and provides a penalty for the use of any other, with some exceptions therein stated.—W. E. Brown, legal editor.

ROAD APPROVED

We have a road that has been taken over by the County Road Commission and approved by the county board of supervisors. Does the county have to keep the road in repair until they build it? They have not commenced working on it yet.—L. G. S., Cedar Springs, Mich.

Sec. 8 of the County Road Act, being Act 305, P. A. 1917 which applies to Kent county provides for the taking over of highways and service of notice. The section closes with this provision: "No work toward the improvement of such road shall be done by the county road commission until after such notice has been given, and until such notice is given, the county authorities shall not enter upon or interfere with that part of the highway which shall remain a township road, for the purpose of care, repair and maintenance and of liability under the provisions of chapter 25 of act 283 of P. A., 1909, and of the acts amendatory thereto."—W. E. Brown, legal editor.



Born Cooks and Others

Until recently the woman on the farm, though a born cook and a peerless housekeeper, has often been handicapped by a lack of information concerning certain new methods that have been adopted in the cities.

To some extent this has been true in the case of Jell-O, which in the cities has for several years been the most popular preparation for desserts and salads.

As rapidly as possible steps have been taken to spread among all women complete knowledge of the subject.

In Domestic Science and Home Economics classes, in city and country, trained women have demonstrated the simple and economical Jell-O way, and recipe books are being distributed thoroughly. As Jell-O is now sold in practically every general store in the country, farmers' wives are enabled to share the privilege enjoyed by their city sisters.

The Jell-O Book, containing recipes for all kinds of plain and elaborate desserts and salads, and explaining the easiest and cheapest way to make them, will be sent free to every woman who writes and asks us for it. It is a book which every housewife in America should possess.

Jell-O is put up in six pure fruit flavors: Strawberry, Raspberry, Lemon, Orange, Cherry, Chocolate, and sold 2 packages for 25 cents.

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

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BETTER THAN RED CLOVER
FOR SOILING AND A VALUABLE HAY CROP

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\$44 Buys the New Butterfly Jr. No. 2
Light running, easy cleaning, close skimming, durable. NEW BUTTERFLY Jr. No. 2. Separators are guaranteed to CLEAN. Lifetime against defects in material and workmanship. Made also in four larger sizes up to No. 8 shown here; sold on 30 DAYS' FREE TRIAL and on a plan whereby they earn their own cost and more by what they save. Postal brings Free Catalog Folder. Buy from the manufacturer and save money.

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MARKET FLASHES



TRADE AND MARKET REVIEW

THE IMMEDIATE prospect of an early spring is contributing to a decided improvement in the general business outlook, the country over, and those among us, who lay claim to fairly good judgment concerning economic conditions, express the belief that the advent of much better times is not far away. Reports from business done recently, in jobbing and retail lines, are more encouraging than any that have been received from this source since late last summer. A quite general revival of activities in automobile manufacturing circles, is reported and a marked increase is noted in the volume of purchasing operations, in connection with daily and future supplies of raw material and manufactured parts. This much can be said for Detroit—while she was the last to feel depression resulting from the general unemployment of labor she is first to show marked progress toward normal labor conditions. Announcements made during the past week, by prominent automobile manufacturers, indicate a progressive increase in the daily rate of production and future plans that will mean a marked increase in the number of men called back to work before April 1st.

While the prevailing opinion seems to be that liquidation in food products is just about over, recent marked declines in the selling value of certain staple commodities and basic raw materials remind us that prices are never so low that untoward conditions and a discouraging outlook cannot make them go lower, temporarily, at least. Recent marked declines in cereal prices while they seem to have increased the volume of export buying, have had the opposite effect on the domestic demand for these commodities, millers and others, who manufacture and merchandise grain, being inclined to limit their purchases

Edited by H. H. MACK

GENERAL MARKET SUMMARY

DETROIT:—Weakness returns to wheat. Corn and oats inactive. Beans steady. Hay firm. Potatoes easy.

CHICAGO:—Export demand not heavy enough to hold up wheat prices. Oats and corn follow wheat. Beans steady.

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

to pressing needs, in the belief, that prices will drop still lower before a permanent bottom is reached.

WHEAT

WHEAT PRICES PER BU., MAR. 22, 1921				
Grade	Det.	Chgo.	N. Y.	
No. 2 Red	1.65	1.67	1.71	
No. 2 White	1.63			
No. 2 Mixed	1.63		1.66	
PRICES ONE YEAR AGO				
(No. 2 Red)	(No. 2 White)	(No. 2 Mixed)		
Det.	2.49	2.47	2.47	

The early part of last week was a period of weakness in the wheat market and declines were noted. This weakness gave way to some strength the middle of the week but it only held for one day after which prices continued downward and the closing day was one of quietness. The sagging tendency was ascribed to scarcity of both foreign and domestic demand and to the news that the growing crop was doing very nicely and rain was needed only in remote sections. However, foreign countries seemed to have their eyes on our wheat because a sharp decline brought their buyers into the market which prevented any serious declines of duration; if it had not been for the watchful eyes of these agents it is a question as to how low levels prices would have ventured. Another factor having much to do with the weakness of wheat was the

selling of stocks held by large houses who became tired of holding for higher prices. The current week opened with moderate advances in prices, but nothing of a startling nature, only a reaction from the weakness of last week. The opening found buyers with seaboard connections bidding and indications pointed to considerable export business.

CORN

CORN PRICES PER BU., MAR. 22, 1921				
Grade	Det.	Chgo.	N. Y.	
No. 2 Yellow	.68	.66	.63 1/2	
No. 3 Yellow	.65			
No. 4 Yellow	.65			
PRICES ONE YEAR AGO				
(No. 3 Yell.)	(No. 4 Yell.)			
Det.	1.68	1.63		

Corn worked lower last week owing in a large part to the weakness in wheat but prices did not decline as rapidly. An uninterested public and large receipts from country elevators also helped the recession of prices. The fact that the most active buyers were those who have been very large sellers the past few weeks would lead one to believe stocks on markets were about sold out and dealers were looking for higher values in the future. Corn rose with wheat Monday of the present week and dealers say receipts are smaller, farmers appearing reluctant sellers.

OATS

OAT PRICES PER BU., MAR. 22, 1921				
Grade	Det.	Chgo.	N. Y.	
No. 2 White	.46 1/2	.42 1/2	.53	
No. 3 White	.45	.43		
No. 4 White	.42			
PRICES ONE YEAR AGO				
(No. 2 White)	(No. 3 White)	(No. 4 White)		
Det.	.99	.98	.97	

Last Saturday marked the closing of another week of quietness in oat markets and little interest was shown although some attention was attracted to the increased southern demand. The east continues to remain out of western markets being able to get prompter delivery from our neighbor country, Canada, at suitable rates. Chicago received 600 cars and only 362 a year ago. This week's opening found Detroit prices at last week's closing levels while damage resulting from elevator expansion caused prices to rise in Chicago.

RYE

Export bidding is again making its appearance in this market and No. 2 is quoted at \$1.50 at Detroit.

BEANS

BEANS PER CWT., MAR. 22, 1921				
Grade	Det.	Chgo.	N. Y.	
C. H. P.	3.75	4.75	4.85	
Red Kidneys		9.25		
PRICES ONE YEAR AGO				
(C. H. P.)	(Red Kidneys)			
Det.	6.50			

There is no improvement in this market and not likely to be in the immediate future. With grain prices steadily on the down grade it is hardly to be expected that beans will advance. Those who insist that grain prices are on the bottom and due for sharp advances before the next crop are equally positive that beans will follow the same trend.

POTATOES

A review of potato markets for the past week finds New York and Chi-

SPUDS PER CWT., MAR. 22, 1921		
	Sacked	Bulk
Detroit	1.54	
Chicago	1.20	1.25
New York		1.30
Pittsburg		1.54
PRICES ONE YEAR AGO		
Detroit	6.00	5.83

cago prices lower while potatoes have advanced slightly at Detroit. The rehiring of labor in Detroit is thought to have much to do with the advance but unsettled conditions in the other cities does not promise well for growers selling to those centers. It is believed prices will not go much higher, if any, than they are at the present time as roads are getting in shape so they may be traveled and farmers are unpitting their surplus and hauling them to market so to get them out of the way before spring work begins.

LIVESTOCK MARKETS

The anticipation of a packing-house strike is raising havoc with the live stock and packing business in all lines of the trade; at this writing, efforts are being made to arbitrate the differences which have developed, between the packers of the country and their employees, concerning the wage scale but with scant hope of success. As far as Detroit and Michigan are concerned, it develops that the calling of a strike will have but little influence. Detroit packing house workers submitted to a wage reduction late last fall; much more important than the fact that they are willing to accept lower wages is the fact that Detroit butchers propose to work every day that they can work, no matter what the wage is.

The cattle trade had a bad time of it, last week, on the Chicago market and with the single exception of canners and bologna bulls, prices were, unevenly, 25 to 50 cents lower than on the close of the week before. All heavy steers, regardless of breeding or quality, were dull and draggy all the week but light handy steers and heifers got fairly good action at all times, closing stronger than any other kind. The top for heavy steers was \$10.75 for light steers, \$10.65 and for yearlings, \$10.25 per cwt.

The big Chicago packers are "passing up" the Chicago sheep and lamb market, just now and are getting the bulk of their supply direct from western points; on Saturday, March 19, Chicago packers received 7,500 sheep and lambs that did not appear in the reports of local market receipts; the conditions, noted above, are demoralizing, in the extreme, both to prices and the general activity of the market. Lambs closed the week, 25 to 50 cents lower, aged ewes and wethers steady to 25 cents lower and yearling wethers 25 to 50 cents lower than on the close of the week before.

For unreliability, the Chicago hog market during the past week, should be awarded the prize over all competitors. The demand was freaky and uneven, all the week, ranging up and down for light and York weights with a spread from high to low of more than \$1 per cwt. Heavy hogs were dull all the week closing 50 cents to \$1 per cwt. lower than the week before. The average for all kinds for the entire week was \$10 per cwt. On Monday of this week, hogs sold in Chicago for a top of \$11.60, the highest price of the year, so far.

So far in the month of March, the Detroit live stock market has given shippers better satisfaction than during any other part of the winter and spring season. Cattle have been selling well, comparatively speaking, prices showing up well when compared with those paid in Chicago and other points. High-grade milch cows are in good demand and choice veal calves are bringing better prices than in any other market, similarly located. Fairly liberal receipts of cattle came to hand on Monday, March 21 and all but canners were



\$300.00

in Prizes

CONTEST OPEN TO EVERYBODY

For years Hirth-Krause Shoes have been advertised to the good people of Michigan. For years people have worn and continued to buy these shoes.

The shoes make good; everywhere they tell us so.

What kind of an Advertisement Would You Write for Such a Shoe?

Try your hand at it. We are going to give \$300.00 in prizes for best answers to this question. First prize, \$100.00. Second prize, \$25.00. Third prize, \$10.00. Next thirty-three prizes, \$5.00 pair of Hirth-Krause More Mileage Shoes.

This contest is open to everybody. All replies must be in, not later than midnight, April 15.

To help you we have prepared a circular on the contest, giving all the particulars. Write for this free descriptive circular. It will help you win a prize. Write for it today.

HIRTH-KRAUSE

GRAND RAPIDS,

MICHIGAN

Virgin Wool Blankets At COST

Soft, downy blankets of virgin wool, free from shoddy. Not for a long time have you been able to get blankets like this at any price. Now you can get them at prices lower than those generally asked for inferior goods.

The ordinary "all wool" guaranty does not protect you. A blanket or piece of goods containing 100 pct. shoddy may be sold as "all wool;" but it is second-hand wool, with all the best wear gone. "Virgin wool" wool that has never been used before—is the only assurance of full wear and value.

These blankets are made from virgin Michigan-grown wool by mills under contract with this Bureau. We are interested only in providing a market for the wool produced by Michigan farmers; in distributing the maximum number of blankets, not in making a profit on the blankets themselves. It presents an unusual opportunity for you to buy the best blankets at a low cost. If you are not satisfied fully, we will gladly refund your money. For those who desire a softer blanket, some are made with cotton warp.

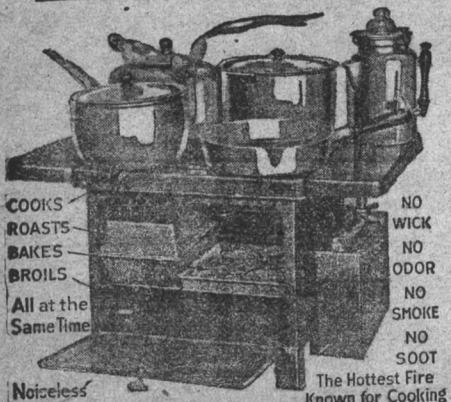
THE AURORA double, pure virgin wool in blue and white, tan and white, gray and white plaids is 72 x 84 inches, weight 5-12 pounds with a neat lockstitch. Price **\$9.50**

THE ILLINOIS single, made expressly for people who require a little softer blanket. It is 66x84 inches and contains 75 per cent virgin wool with 25 per cent cotton warp and is suitable for a bed blanket. Price **\$6.50**

THE GEORGE WASHINGTON a choice, natural light gray double bed blanket with a rich brown blue or pink border, size 72x84 inches, weight 5 pounds. Is bound with white Solsette ribbon. This blanket is pure virgin wool. Price **\$9.50**

BUY FROM YOUR OWN ASSOCIATION
Wool Department

Michigan State Farm Bureau,
223 Cedar Street, Lansing, Mich.



Send for Free Illustrated Catalog of the
Little Wonder Oil Stove

Designed from suggestions of women oil stove users the country over. Enclosed top (which allows of no wasted heat up around sides of cooking utensils), and forced air feed (stove burns 90% air to 10% oil), makes one central burner and one gal. of kerosene do the work of any other oil stove with 6 burners and 10 gals. No wick or asbestos rings; no dirt; dangerless; ODORLESS. Cooks fast or slow as desired. Height 14 in.; cooking surface (besides 2 warming shelves) 14 in. x 16 in. Weight 30 lbs. Generated with denatured alcohol. Simply operated; strongly constructed; occupies but little space. The greatest oil stove ever invented, and price only \$17.50 f. o. b. factory. Send for Catalog NOW.

Little Wonder Stove Co.
17252 GABLE AVE. DETROIT, MICH.

Auto Owners WANTED!



To introduce the best automobile tires in the world. Made under our new and exclusive Internal Hydraulic Expansion Process that eliminates Blow-Out—Stone-Bruise—Rim Cut and enables us to sell our tires under a

**10,000 MILE
GUARANTEE**

We want an agent in every community to use and introduce these wonderful tires at our astonishingly low prices to all motor car owners.

FREE TIRES for YOUR OWN CAR to a representative in each community. Write for booklet fully describing this new process and explaining our amazing introductory offer to owner agents.

Hydro-United Tire Co.
DEPT. 139 PHILADELPHIA, PA.

FINN'S PEACH TREE COLLECTION

10 Peach trees, 2 1/2 to 3 ft. Prepaid for \$4.75
3 Elberta, 2 Late Crawford, 3 Rochester
1 Champion, 1 Yellow St. John
Free Catalogue of all fruit and ornamental shrubs, plants and vines.
JOHN W. FINN'S WHOLESALE NURSERIES
Established 1890. Dansville, N. Y.

25 cents lower; the top for steers was \$9; best cows \$7 and best heavy bulls, \$6.50. The top for veal calves was \$16 but this price is dangerously high, especially for this time of year.

In sympathy with outside markets, lambs have been dull of late and prices have been working lower in the Detroit market. Monday's Detroit hog run was fairly liberal and the top of \$11, looked somewhat out of line with the trade in other markets. Pigs and extremely heavy hogs sold higher in Detroit than in many other markets.

RECONSTRUCTION LEAGUE OPENS IN MICHIGAN

(Continued from page 3)

world's governmental debt was, in round figures, \$43,000,000,000. At the time of the armistice it was increased to about \$220,000,000,000, and last December it was approximately \$311,000,000,000. In other words, the governmental debt increased more rapidly during each of the two years following the war than during the war itself. This spells disaster. Congress in the two years since the war has done practically nothing to relieve this situation in our country, has enacted no measures of far-reaching importance which should have been enacted immediately following the war.

"The American people need to assert themselves during the next year as never before in the country's history. The best way to prevent the vicious legislation which is being sought at Washington and which will be pressed in the special session of Congress, is to conduct a vigorous campaign for constructive measures of economic justice at the national capital. This is the task of the People's Reconstruction League, recognized at Washington to be the most significant and important combination of progressive farm, labor, and women's forces, and the general public to fight for a constructive program, ever organized."

In conclusion, Marsh made an appeal to the farmers of Michigan "to cast in their lot with the progressive forces in the farm and labor organizations to end the bleeding of the farmers through the Cummins-Esch law, with its guarantee of a high dividend, and to join with us in demanding that the profiteers pay their fair share of the cost of government and in insisting upon packer control legislation and federal control of our natural resources."

LOOKING INTO THE FUTURE OF LIVESTOCK MARKETS

(Continued from page 1)

Pacific coast for both the cattle and hogs produced in the Missouri River district, has modified the situation. Train-load after train-load has left the River markets for the far west and the result has been, that prices paid in St. Louis and some other western markets, have averaged nearly as high as in Chicago. The fact, that so many hogs have been shipped to the western coast makes it certain that supplies of cured pork products, in western packing house cellars, are not nearly as large this year as usual.

Present indications favor an active live hog market all through the summer months with the possible exception of the usual June break. It is very generally believed that the supply of young hogs, in the hands of feeders, is much smaller than the average supply of other recent years. Records show that during 1920 the number of stock hogs shipped out to country feeders, by the 65 stock yards of this country, was 168,800 less than for 1919. During the month of January, 1921, the number of feeding hogs sent to the country, from the leading markets, was 51 per cent less than for the same month in 1920.

As to the future demand for feeding hogs and feeding cattle, it certainly looks mighty good at this writing. A tremendous carry-over from the corn crop of 1920 is assured; add a normal crop for 1921 and one can easily appreciate how anxious farmers will be for young stock to consume a commodity that brings less money when disposed of in any other way.

A WELL-FED plant resists disease.

Potatoes, Truck Crops, Tobacco, and Sugar Beets are often attacked by diseases that thrive on ill-fed plants.

The effects produced on these crops by Potash hunger have often been mistaken for a new disease.

Fertilizers for these crops should be well balanced and should contain from 7 to 10 per cent. of Potash.

You can get plenty of Potash if you insist on having it.

SOIL & CROP SERVICE, POTASH SYNDICATE
H. A. Huston, Manager
42 Broadway New York



**POTASH
PAYS**

REGISTERED SEEDS AT ASSOCIATION PRICES

Oats, Barley, Soy Beans, Corn, etc., registered by the

CROP IMPROVEMENT ASS'N.

These proven Michigan-grown seeds, inspected by the association are supplied at

ASSOCIATION PRICES

Oats—\$.60 to \$1.25 per bushel; Barley, \$1.15 to \$1.75, depending on size of order. Equally attractive prices on clover, alfalfa and other field seeds.

SEED DEPARTMENT

MICH. STATE FARM BUREAU
223 N. Cedar Street Lansing, Mich.

Get Low Prices on Berry Boxes and Baskets

Write for our Free Catalog! Shows you how you can save money by buying direct from the largest Berry Box and Basket Factory in the Country.
New Albany Box & Basket Co., Box 137 New Albany, Ind.

Ear Tags FOR STOCK

Tag your stock—best and cheapest means of identification for Hogs, Sheep and Cattle. Name, address and number stamped on tags. Catalog mailed free on request.
F.S. Burch & Co. 279 W. Huron St. Chicago

**BOOK ON
DOG DISEASES
And How to Feed**

Mailed free to any address by the Author
H. CLAY GLOVER CO., Inc.,
118 West 31st Street, New York

The Best Breeders

advertise in The Michigan Business Farmer. It will be worth your while to read the livestock advertisements in every issue to keep posted on what they have to offer.

IS YOUR FARM FOR SALE?

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

EVERBEARING STRAWBERRY PLANTS

All Kinds of Small Fruit
My Everbearers Produce Big Crops 4 months of the year. Sure to Grow, Healthy Stock, Special Bargains, Reasonable Prices. FREE
My 1921 Catalog.
J. N. ROKELY, RS Bridgman, Mich.



Why So Widely Used?

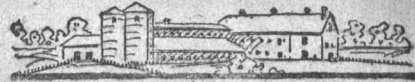
There is only one reason why Kow-Kare (formerly called Kow-Kure) is so generally used by dairymen all over the country.

Merit, proven time after time, in treating the ills of milking cows is the one answer.

By assisting the digestive and genital organs to function normally Kow-Kare throws off diseases and is a reliable treatment for Barrenness, Abortion, Retained Afterbirth, Scouring, Lost Appetite, Bunches.

Buy Kow-Kare in 70c and \$1.40 packages from feed dealers, general stores or druggists.

DAIRY ASSOCIATION CO.
Lyndonville, Vt.



ASPIRIN

Name "Bayer" on Genuine



Beware! Unless you see the name "Bayer" on package or on tablets you are not getting genuine Aspirin prescribed by physicians for twenty-one years and proved safe by millions. Take Aspirin only as told in the Bayer package, for Colds, Headache, Neuralgia, Rheumatism, Earache, Toothache, Lumbago, and for Pain. Handy tin boxes of twelve Bayer Tablets of Aspirin cost few cents. Druggists also sell larger packages. Aspirin is the trade mark of Bayer Manufacture of Monoaceticacid-ester of Salicylicacid.

**Little Livestock Ads.
in M. B. F.
Do the Trick**



BREEDERS DIRECTORY



(SPECIAL ADVERTISING RATES under this heading to honest breeders of live stock and poultry will be sent on request. Better still, write out what you have to offer, 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 size 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 here at special low rates: ask for them. Write today!)

BREEDERS' DIRECTORY, THE MICHIGAN BUSINESS FARMER, Mt. Clemens, Michigan.

CLAIM YOUR SALE DATE

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

Mar. 28, Holsteins, Bronson & Salisbury, Sheppard, Mich.
May 5, Shorthorns, Southern Mich. Pooled Shorthorn Breeders' Ass'n., Branch Co. Farm, Coldwater, Mich.
May 10, Shorthorns, Central Mich. Shorthorn Breeders' Ass'n., Greenville Fair Grounds, Greenville, Mich.

LIVE STOCK AUCTIONEERS

Andy Adams, Litchfield, Mich.
Ed. Bowers, South Whitley, Ind.
Porter Colestock, Eaton Rapids, Mich.
John Hoffman, Hudson, Mich.
D. L. Perry, Columbus, Ohio.
J. L. Post, Hillsdale, Mich.
J. E. Ruppert, Perry, Mich.
Harry Robinson, Plymouth, Mich.
Wm. Waffle, Coldwater, Mich.
John P. Hutton, Lansing, Mich.

CATTLE

HOLSTEIN-FRIESIAN

LAKEVIEW DAIRY FARM HOLSTEIN-FRIESIAN. Herd sire Paul Pieterie Wane Prince. Two nearest dams average 31.9 lbs. butter, 672 lbs. milk in 7 days. Dam milked 117 lbs. in one day; 3,218 lbs. in 30 days; 122.37 lbs. butter in 30 days. His bull calves for sale. One from a 22 lb. two-year-old. Good individuals. Prices reasonable. Age from 2 to 5 months.
E. E. BUTTERS, Coldwater, Mich.

USE PURE BRED SIRE

Estimates furnished by the Dairy Division of the United States Department of Agriculture show that the dairy cows of the country average only 4,500 lbs. of milk per year.

A good Holstein bull will increase the production of the ordinary herd 50 per cent in the first generation.

Let us help you find a good one to use or your herd. You cannot make a better investment.

MICH. HOLSTEIN - FRIESIAN ASSOCIATION

Old State Block Lansing, Mich.

SHOW BULL

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

BOARDMAN FARMS

JACKSON, MICH.
Holstein Breeders Since 1906

BULL CALF BORN MARCH 27, 1920, VERY nice, straight and well grown, sired by a son of Flint Hengerveld Lad whose two nearest dams average over 32 lbs. butter and 735 lbs. milk in 7 days. Dam is a 20.61 lb. Jr. 2 year old daughter of Johan Hengerveld Lad 68 A. R. O. daughters. Price \$150. F. O. B. Flint. Pedigree on application.
L. C. KETZLER, Flint, Mich.

\$100.00 WILL BUY HOLSTEIN-FRIESIAN bull calves, nearly ready for service, from sire whose six nearest dams average 33.34 lbs. butter in 7 days.

OSCAR WALLIN, Wisconsin Farm
Unionville, Mich.

HOWBERT HERD

WHERE TYPE, CONSTITUTION AND PRO-
DUCTIVE ABILITY IS ASSURED.

TWO grandsons of King of the Pontiacs from A. R. O. Dams of excellent breeding.

H. T. EVANS
Eau Claire, Mich.

FOR SALE

TEN HEAD OF REG. HOL-steins for \$2,000. A head of nine cows and a 26 lb. bull calf. These cows are good size wt. up to 1,700 lbs., some with A. R. O. records as high as 20 lbs. butter in seven days. Three ready to freshen soon. This herd is tuberculin tested. Write or come to see them. My herd is headed by a 30 lb. sire.

THE SQUARE DEAL STOCK FARM
Will Orsine, Inlay City, Mich.

7 HOLSTEIN-FRIESIAN BULLS 7

From a State and Federal Accredited Herd, Sired by

WALKER LYONS 174771

whose twenty nearest dams have records averaging 30.11 pounds of butter from 592 pounds of milk. These bulls are from dams with records up to 26.3 as Jr. four year olds and are priced from \$100.00 to \$200.00. Age, 9 months.
E. L. SALISBURY
SHEPHERD, MICH.

Yearling Bull For Sale

Bull born Sept. 28, 1919, evenly marked and a fine individual. Sired by my 30 lb. bull and from a 20 lb. daughter of Johan Heng. Lad, full sister to a 32 lb. cow. Dam will start on yearly test Nov. 15.

ROY F. FICKIES
Chesaning, Mich.

SOLD AGAIN

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

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

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

TO SETTLE AN ESTATE

March 21—Holsteins, H. A. Smith; Wix-7 registered Holstein cows, 5 yet to freshen, bred to a 30 lb. bull, \$1,200 takes them.
BERT SLOCUM, Byron, Mich.

FOR SALE—3 GOOD BULLS, LIGHT, MEDIUM and dark. Trams' records at 2 yr. 3yrs. and 4 yrs., 16 pounds, 24 pounds and 26.46 ones. First two dams average 22,000 pounds milk and over 1,000 pounds butter in year. All good type. Also a few registered cows and heifers.
M. J. ROCHE, Pinckney, Mich.

FOR SALE LARGE REGISTERED HOLSTEIN cow, five years old, well marked and a good milker. Also her bull calf born Oct. 27, sired by a son of Johan Hengerveld Lad, and a 22 lb. two year old dam. Price \$250 for the pair.
R. H. BARNHART, R. 1, St. Charles, Mich.

BRANDONHILL FARM

Ortonville, Michigan
We have cut our price one-half:
Bull calf, 35 lb. sire, 30 lb. dam \$100
Bull calf, 41 lb. sire, 30 lb. dam 200
Bull ready for service 350
Bull, 41 lb. sire, 31 lb. dam 500
All good individuals from herd having raised Third Clean Federal Test.
JOHN P. NEHL
1205 Griswold Street, Detroit, Michigan

FOR SALE: TWELVE HEAD TUBERCULIN tested registered Holsteins. Females, \$75 to \$225. Bulls, \$40 to \$70.
CECIL SCRIBNER, Berville Mich.

FAIRLAWN HERD—HOLSTEINS
Herd Sire, Emblagaard Lillith Champion 108073
His sire's dam, Colantha 4th's Johanna, world's first 35 lb. cow, and world's first 1,200 lb. cow. The only cow that ever held all world's butter records from one day to one year, and the world's yearly milk record at the same time. His dam Lillith Piebe De Kol No. 93710, over 1,150 lbs. of butter from 29,599.4 pounds of milk in a year. World's 2nd highest milk record when made and Michigan state record for 6 years. Only one Michigan cow with higher milk record today. His two nearest dams average:
Butter one year 1,199.22
Milk 28,515.8
Champ's sons from choice A. R. O. dams will add prestige to your herd and money to your purse.
J. F. RIEMAN, Owner
Flint, Mich.

FOR SALE—\$475.00

A YOUNG BULL
CASH OR TERMS
From Junior two year old A. R. O. heifer, 17.68, born February 10, 1920, sired by
MODEL KING SEGIS GLISTA
whose grand dam, Glista Ernestine, has six times made better than thirty pounds of butter. This bull is bound to transmit high milk production.
GRAND RIVER STOCK FARMS
111 E. Main
Corey J. Spencer, Owner
Under State and Federal Supervision

TWO BULL CALVES

Registered Holstein-Friesian, sired by 39.87 lb. bull and from heavy producing young cows. These calves are very nice and will be priced cheap if sold soon.
HARRY T. TUBBS, Elwell, Mich.

HOLSTEINS FOR SALE—EITHER SEX. Bulls ready for heavy service from dams with A. R. O. records up to 31 lbs. Also bull calves with same breed. They are all fine individuals and nicely marked and priced to sell. Also a few well bred females.
D. H. HOOVER, Howell, Mich.

FOR SALE—2 REG. HOLSTEIN BULLS ready for service from 19 1-2 and 24 1-2 lb. dams. Price \$100 and \$125. Herd on accredited list.
Wm. GRIFFIN, Howell, Mich.

FOR SALE—REGISTERED HOLSTEIN COW. Three heifer calves. 1 bull calf.
R. J. BANFIELD, Wilcox, Mich.

BULL CALF FOR SALE

His six nearest dams average 28.7 lbs. Sire 42.26 lbs. Dam 21.39 lbs. at three years. Terms if you want them. Voepel Farm, Sebawaing, Mich.

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

SHORTHORN

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

IF YOU WANT TO BUY OR SELL I MAY have just what you want. I handle from one animal up to the largest consignment sale in the country.
O. A. Rosmussen Sale Co., Greenville, Mich.

Have You a Mortgage
on Your Farm?

If so buy Shorthorns at the Feb. 25th sale at M. A. C. held at 1 P. M. We are listing four females and two show bulls that will lift your mortgage if they are cared for.
RICHLAND FARMS
C. H. Prescott & Sons, Tawas City, Mich.

SHORTHORNS

5 bulls, 4 to 8 mos. old, all roans, well fed. Dams good milkers, the farmers' kind, at farmers' prices.
F. M. PIGGOTT & SON, Fowler, Mich.

MAPLEHURST FARM

Newton Loyalist 2nd in service, short horn bulls for sale.
G. H. PARKHURST, R. 2, Armada, Mich.

MILKING SHORTHORNS I AM OFFER-ing for sale at present four bulls, two yearlings and two younger, also a few females. Prices reasonable.
ROY S. FINCH, Fife Lake, Mich.

SCOTCH-TOPPED SHORTHORN BULLS FOR sale.
W. E. MORRISH, R. 5, Flint, Mich.

BUY SHORTHORNS FROM AN ACCRED-ited herd, that are right at readjustment prices.
JOHN SCHMIDT & SON, Reed City, Mich.

WHAT DO YOU WANT? I represent 41 SHORTHORN breeders. Can put you in touch with best milk or beef strains. Bulls all ages. Some females. C. W. Crum, President Central Michigan Shorthorn Association, McBrides, Michigan.

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

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

FOR SALE—REG. SHORTHORN BULL CALV-es ready for service. Also Oxford Down Ewes.
JOE MURRAY & SON, Brown City, Mich.

Maple Ridge Herd of Bates Shorthorns Of-fers for sale a roan bull calf 9 mos. old. Also 2 younger ones. J. E. TANSWELL, Mason, Mich.

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

CHESTNUT RIDGE STOCK FARM
offers eight Scotch Topped Shorthorn Heifers from seven to twenty-two months old and one roan bull nine months old. Also two younger bulls.
RALPH STIMSON, Oxford, Mich.

KENT COUNTY SHORTHORN BREEDERS' Ass'n. are offering bulls and heifers for sale, all ages. Sell the scrub and buy a purebred.
A. E. RAAB, Sec'y, Galesonia, Mich.

HEREFORDS

HEREFORD CATTLE and HAMPSHIRE HOGS.

We can furnish registered bulls from 12 months and older, best of breeding and at a very low price, have also some extra good Herd headers. We have also a large line of registered Hampshire Hogs, Glits, Sows and Boars.
Write us, tell us what you want and get our prices.
LA FAYETTE STOCK FARM, La Fayette, Ind.
J. Crouch & Son, Prop.

REGISTERED HEREFORD CATTLE—KING REPEATER 713941, and Beau Perfection 327809 head our herd. Bulls are sold; have some very fine heifers for sale, bred or opened bred to our herd bulls. Come and see them; they will please you.
Tony B. Fox, Prop., Henry Gehrholz, Herdsman,
MARION STOCK FARM, Marlon, Michigan

HEREFORDS FOR SALE

Fairfax and Disturber blood, 150 Reg. head in herd. \$35.00 reduction on all sires. Choice females for sale. Write me your needs.
EARL C. McCARTY, Bad Axe, Mich.

150 HEREFORD HEIFERS. ALSO KNOW of 10 or 15 loads fancy quality Shorthorns and Angus steers 5 to 1,000 lbs. Owners anxious to sell. Will help buy 50c commission.
C. F. BALL, Fairfield, Iowa

LAKWOOD HEREFORDS GOOD TYPE, strong boned young bulls, 12 months old for sale. Also high class females any age. Inspection invited.
E. J. TAYLOR, Fremont, Mich.

RIVERVIEW HEREFORDS FOR SALE a grandson of the \$9,500 Bullion 4th. Also a few females.
Wm. C. DICKEN, Smyrna, Mich.

JERSEYS

REG JERSEYS HEIFERS 1 YR. OLD—by Majesty's Oxford Shyllock 156,692 also young bulls sired by Frolic's Master Pogis 177683, a grandson of Pogis 99th and Sophie 19th's Tormentor, two great bulls of the breed. Write for prices and pedigree.
GUY C. WILBUR, R. 1, Belding, Mich.

FOR SALE—MY HERD OF MAJESTY STRAIN Jersey Cattle, 9 head. Herd sire, Bountiful Majesty Prince, 2 years old, 8 females, 3 cows, 2 yearlings and 3 fall calves. First check of \$1000.00 takes the bunch. Write for particulars and pedigree.
WM. H. FRY, Lake Odessa, Michigan.

MEADOWVIEW JERSEY FARM, REG. JERSEY cattle for sale.
J. E. MORRIS & SON, Farmington, Mich.

HIGHLAND FARM JERSEYS FEDERAL ACCREDITED herd. High production, splendid type and breeding. Write us your wants.
Samuel Odell, Owner, Adolph Heeg, Mgr.
Shelby, Michigan

DO YOU WANT PRODUCTION?

The grandson of Pogis 99th of Hood Farm and Sophie 19th's Tormentor, two of the greatest sires ever known heads our herd. No other strain is more noted for past and present production. Bull calves and bred heifers for sale at reasonable prices.
FRED HAYWARD, Scotts, Mich.

YEARLING BULL
Sired by Majesty's Oxford Shyllock. Nothing better.
FRANK P. NORMINGTON, Ionia, Michigan

JERSEY BULLS FOR SALE

Ready for service from R. of M. dams. T. B. tested. Will give time.
SMITH & PARKER, R. 4 Howell, Mich.

FOR SALE TWO BULL CALVES SIX MOS. old, by a son of Sophia's Premier. Tuberculin tested herd.
JAMES HARRIS, R. 2, Traverse City, Mich.

GUERNSEYS

REGISTERED GUERNSEYS

A bull calf, nearly ready for light service—he is a dandy—we have a price that will sell him.
J. M. WILLIAMS
North Adams, Mich.

GUERNSEY BULLS

One four-year-old bull, best breeding, splendid individual. His dam produced 8069.6 pounds milk and 423.45 pounds fat at 2 years old. Also some young bulls 9 to 12 months old; best of breeding.
SPRING DELL FARMS, LaPorte, Ind.
White Bros. & Burns, R2, Box 20

Guernsey Bull for Sale

of serviceable age. From A. R. dam. Herd under state and federal supervision. Also Duroc bred sow (registered). Write for particulars to
O. A. HENNESEY, Watervliet, Michigan.

GUERNSEY BULL CALVES

From tested and untested dams. Satisfaction guaranteed.
Write for prices and breeding to
MORGAN BROS., Allegan, Mich., R1

ANGUS

The Most Profitable Kind

of farming, a car load of grade dairy heifers from LENAWEE COUNTY'S heaviest milk producers to include a pure bred ANGUS bull of the most extreme beef type for combination beef and dairy farming.
Car lot shipments assembled at GLENWOOD FARM for prompt shipment.
Methods explained in SMITH'S PROFITABLE STOCK FEEDING, 400 pages illustrated.
GEO. B. SMITH, Addison, Mich.

The Home of

Imp. Edgar of Dalmeny

Probably

The Worlds' Greatest BREEDING BULL

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

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

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

WILDWOOD FARMS
Orion, Mich.

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

SHIPPING LIVESTOCK CO-OPER-
ATIVELY IN ILLINOIS

(Continued from page 4)

quate service and have not handled this business in an organized way and consequently have overlooked some important matters pertaining to livestock shipping.

One of the big things that has been accomplished by having a county manager is to put an efficient man in direct charge of organizing the entire livestock business of the county. If a local manager falls down then he is in shape to get some other efficient man on the job. The county manager handles all matters relating to bookkeeping of the organization and this makes for more efficient handling of the details than is the case with the majority of local shipping associations.

A change was made in the membership which hooks the shippers association up more closely with the Farm Bureau. All farm bureau members will automatically become members of the shipping association if they so desire. Non-members of the Farm Bureau being required to pay \$1 a year membership fee.

One of the big things in a shipping association is volume of business. In this a limited membership is a handicap. The question of limiting the membership of co-operative shipping associations to the membership of the county farm bureau had been suggested but was not considered seriously for this reason.

It is interesting to follow the method which is used by Adams County Shipping Association. A blank is provided which the local manager fills out in duplicate, sending one to the commission firm and the other to the county manager, showing the number of hogs or cattle shipped, home weight, their mark, owner, and any other important details. The car is then shipped to some commission firm, either to the one the producers may designate or if the producers do not point out a definite firm, the shipper uses his own judgment. The shipper must take care of the usual preliminary work about getting the car in shape for the stock. The commission firm to whom the hogs are shipped handles them just as if they had received them an individual shipper. Each man's hogs are sold separately and are even divided into sub-groups if a mixed bunch is being marketed. This is possibly due to the fact that the majority of the shipments go to St. Louis where the marketing conditions are not as congested as at the Chicago market. After the car is sold the returns are sent by the commission firm to the county manager with the expenses already pro-rated. The returns are deposited immediately to the credit of the shipping association in a bank at St. Louis and there transferred to the home bank at Quincy, Illinois. The manager in turn checks up the amounts, mails a statement of sales with a check for the full amount due each member who shipped in a carload of stock. The county manager files the statement of sales in the office so that there is a complete record on file of every animal which has been sold through the association. This gives a splendid opportunity to study the business for the purpose of making improvements, as well as having all records, books and files, open for inspection by any member.

The association in Adams County, Illinois, points out several advantages through the county shipping association plan which are backed up by those in other states. The centralized organization which gives the point of contact between local and state or national associations provides for centralized uniform records, helps check up on commission firms and other types of service which C. L. Harlan, investigator of the Iowa Federation shows is especially necessary in the Chicago yards. Secondly, its centralized organization provides a better source for the collection of claims, damages, securing of improvements to shipping facilities, and a broader insurance. Third, it provides a larger volume of business which is directed by an efficient man in charge of the whole county organization directed as a unit with interchangeable membership.

BUSINESS FARMERS' EXCHANGE

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

FARMS & LANDS

CHOICE FARM LANDS

I have the best proposition on earth for the man who is tired of being a renter, of working for others or who desires a larger farm than he now owns.

I own lands in the famous clover seed belt near Onaway, choice heavy clay loam soil underlaid with limestone at \$10 to \$30 per acre.

The lands were beech and maple lands from which all of the timber has been removed.

A reasonable cash payment is required after which the clover and alfalfa seed will take care of your future payments.

While getting started and your home built, I will, if necessary, stand behind you.

This is one of the chances of a life time if you like farming and are a worker.

Paying for a farm in clover seed belt where seed crops average \$100 per acre, entails no hardship for the dairyman or stock man, as the hay and chaff crops more than pay the expense, leaving the seed crops as the mortgage lifter.

Write today for full particulars and booklet.

THAD B. PRESTON, Onaway, Michigan

8800 DOWN SECURES 105 A. WITH 7 cows and heifers, hog, poultry, machinery, cream separator, household furniture, crops, etc.; convenient advantages; productive machine-worked fields; 15-cow pasture; valuable wood timber; variety fruit; 300 sugar maples; 8-room house; 12-cow barn, spring water. If taken now \$2,500 gets all, easy terms. Details page 15, Spring Catalogue, 1-1000, Farming, FREE, STREET AGENCY, 814 BE Ford Bldg., Detroit, Mich.

FOR SALE—160 ACRES CLAY LOAM SOIL 40 acres cleared, balance in very valuable timber. Basement barn cost \$2,000; good dwelling house and out buildings. A good bearing orchard. Living spring water. This farm is located 12 miles north of Manistique, Mich. The live wire city of Cloverland, Stone road within two miles of farm. Price per acre \$45. The timber will pay half the purchase price. If interested write 329 LAKE STREET, Manistique, Mich.

LANDOLOGY SPECIAL NUMBER JUST OUT containing 1921 facts of clover land in Marinette County, Wisconsin. If for a home or as an investment you are thinking of buying good farm lands where farmers grow rich, send at once this special number of Landology. It is free on request. Address SKIDMORE-RIEHLER LAND CO., 398 Skidmore-Riehle Bldg., Marinette, Wis.

FIRST CLASS FARM HOME, STATE ROAD, 3-4 mile market, schools, churches. For particulars address owner, JOEL G. PALMER, Orleans, Mich.

FREE! DESCRIPTIVE LIST 100 FARMS IN "Thumb" District, the Garden of Michigan. REED REALTY CO., Carsonville, Mich.

FARM BARGAIN—120 ACRE FARM, SANDY loam clay bottom, good soil to raise any kind of crops. Large house with basement; good well; large barn, metal lined granary, silo. Will sell with or without stock and machinery. \$85 per acre. Requires down payment of three thousand dollars. EDWARD HESSE, 1996 Gratiot Ave., Detroit, Mich.

QUICK SALE—MY WEXFORD COUNTY farm. Buildings fair, soil productive, location choice for high school, church and marketing. Price and terms attractive. Ask the owner, LOCK BOX 95, Carson City, Mich.

FOR SALE—105 ACRES GOOD LAND, 70 cultivated, 10 wood lot and timber, balance pasture. Apple orchard, 2 1-8 acres berries. Bank barn, silo, brick veneer 7-room house, other out-buildings, situated on concrete road. Beautiful view Lake Michigan. Shipping point 2 1-2 miles Charlevoix, 7 1-2 miles. ARCHIE CHEW, Bay Shore, Michigan.

MAGIC VALLEY—60 ACRE DEMONSTRATION farm in heart of the lower Delta of the Rio Grande, Texas. All plowed, fenced and under irrigation. Wild land now selling at \$450 per acre. Raise 3 crops a year. Become independent. Can exchange this beautiful farm for Michigan property at \$24,000. Encumbrance \$8,000 at 6 per cent. BENJAMIN & SON, 531 1-2 So. Saginaw St., Flint, Mich.

FOR SALE—247 A. FIVE MILES FROM Remus, all cleared. Brick house. Strictly modern, hot water heat, tenant house. Large barn, silo, buildings new. Would take small farm or house in city. \$18,000. CHAS. GILLMORE, Remus, Mich.

FOR SALE—EIGHTY ACRES, THIRTY cleared house, barn, running water, 75 fruit trees, wood lot, good soil. Small payment down, balance potato contract if desired. \$1,200. EARL BUTTON, Williamsburg, Mich.

FOR SALE—THREE ACRES WITH BUILDINGS. Ideal for poultry and truck farming. Price \$5,500. Privilege of renting 5 adjoining acres. 1502 S. WARREN AVE., Saginaw, Michigan.

GOING, GOING, AT PRIVATE AUCTION sale, before April 1st, 110 acres Eaton Co., dark clay loam, lies level, productive, 15 wheat, 50 seeding. Nice sugar bush, basement barn, new silo, 8 room house other buildings, good well. Near school, five miles Vermontville. If you are looking for a good farm investigate. Cash or terms. N. E. ELLSWORTH, R. 3, Vermontville, Michigan.

FOR SALE—80 ACRES 4 MILES NORTH of Merrill, Mich., in Mt. Haley Township. Adjacent to stone road, 60 acres cleared, balance in valuable timber. Soil clay loam, in one of the best farming localities in Michigan. All mineral rights reserved. Price per acre \$125. If interested address 329 LAKE STREET, Manistique, Mich.

FOR SALE—120 ACRES GOOD LAND IN the beef belt, 4 miles from Merrill, Saginaw Co. Good market, on main gravel road. 100 acres under cultivation. Some timber, good buildings, well, some orchard, 800 rods page fence. 80 acres tile-drained, 16 acres rosen cys, 15 acres new seeding. 30 acres fall plowing, also personal. CLARENCE WATSON, Merrill, Mich.

VAN BUREN CO., MICH. FARMS. HAVE good producing stock and grain farms. Muck land for truck farming, small fruit and grape lands. Tracts of 10 to 800 acres. Best of markets, schools, church and R. R. conditions. If you think of buying for either home or investment let me know what you want and I can please you. WARD L. McKEE, Decatur, Mich.

FOR SALE—80 ACRE FARM, GOOD potato and clover land in Luce Co. Cut over land. Small clearing. Price \$1,000. Write owner. A. G. BROWN, McMillan, Mich.

FOR SALE—STANDING TIMBER. TAM-rack, spruce and some oak, ash and elm. Also number one 120 acres with good buildings. R. W. ANDERSON, Clarkston, Mich.

MISCELLANEOUS

BERRY PLANTS

NEVINS SUCCESS WITH SMALL FRUITS.

Do you know that you can obtain more health, pleasure and profit from a garden of strawberries and raspberries than from any equal amount of land on your place? My beautiful new Catalogue greets you with a smile, and tells you something about ourselves and our favorable location where soil and climate combine to produce plants of superior quality. It tells: HOW to select varieties best adapted to your soil and needs. HOW to prepare the soil for planting. WHEN to plant. THE different systems of small fruit growing. HOW to plant. HOW to care for the patch. HOW to pick and market the fruit so as to obtain the highest prices. HOW to renew the patch. It is a FRUIT GROWER'S GUIDE and whether you buy your plants of us or not you will need this helpful book. "Nevins Success with Small Fruits." Send for your copy today. A postal will bring it. ELMER H. NEVINS, Ovid, Michigan.

SPECIAL OFFER! CERTIFIED STRAWBERRY Plants. 200 Senator Dunlap, 150 Wardfield, \$2.00 postpaid. Satisfaction guaranteed. J. E. HAMPTON & SONS, Bangor, Mich.

SENATOR DUNLAP AT \$3.50 PER 1,000. \$2.00 for 500; \$1.00 per 250. Guaranteed first-class plants or money refunded. C. H. STANLEY, Flower View Farm, Paw Paw, Mich. R. R. No. 2.

FOR SALE—IMPROVED SENATOR DUNLAP strawberry plants, \$3 per 1,000. Pocahontas \$3.50; Gibson, \$3.50. State inspected, FRED STANLEY, 124 Main St., Bangor, Mich.

SENATOR DUNLAP STRAWBERRY PLANTS 40c per hundred delivered. Cuthbert, Red Raspberry and Wilson Blackberry plants, \$1.50 per hundred delivered. ROBERT DeGURSE, Ovid, Michigan.

GRAPEVINES AND RED CURRANT BUSHES No. 1, \$1.95 per doz. 100, \$12. 100 Everlasting Strawberry \$1.95 with Cl. Rose, postpaid in lower Mich. 10,000 Dunlap Strawberry only \$29. Best Black Raspberry very cheap. Ask for free price list. GOBLEVILLE NURSERIES, Gobleville, Mich.

FENCE POSTS

FOR SALE—GRAPE POSTS AND FENCE posts at wholesale prices. Write C. L. RANDALL CO., Cheboygan, Mich.

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

POSTS—BUY DIRECT FROM DEALER in car lots. Write for prices to W. C. FULLER, Farwell, Michigan.

SEVEN FOOT FOUR INCH TOP PEEL cedar posts, F. O. B. Boyne Falls, 23 cents each. HEADLEY BROS., Clarion, Mich.

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FOR SALE—REGISTERED WOLVERINE oats. High yielding, excellent quality. 75c per bu. in 25 bu. lots. W. E. ECKERSON, R. 4 Jackson, Mich.

FOR SALE—CHOICE RECLEANED SEED barley. Yield past season 53 bus. per acre, \$1.25 per bu., bags included. W. B. WHITE, Carson City, Mich.

REGISTERED WOLVERINE SEED OATS for sale 5 to 25 bus. \$1.00 per bu. Bags 40 cents. Cash with order. RHODES & BUCKLEW, Brighton, Mich.

SAVE THE MIDDLEMAN'S PROFIT. Northern grown re-cleaned seeds. Hairy Vetch, 12 1-2c; red clover, medium, 20c; sweet clover, 15c per lb. Sacks free. Prompt shipment—E. B. Pollett, Hale, Mich.

NEW STRAIN YELLOW DENT SEED CORN shells 58 1-2 lbs. Also ensilage seed. Get this seed first. FRANK WOODWARD, Clinton, Mich.

COLLEGE SUCCESS SEED OATS FROM crop yielding 93 bushels per acre cleaned and sacked \$1.00 per bu., 3 bus. per sack. CONK LIN ROLLER MILLS, Conkhu, Mich.

800 BU. CERTIFIED WOLVERINE SEED oats, \$1.00 per bu., in lots of 5 to 24 bus. Write FARLEY BROS., Albion, Mich.

FOR SALE—ITO SAN SOY BEANS, FINE quality, \$5.50 per bushel. Also pedigreed Worthy seed oats. G. P. PHILLIPS, Bellevue, Mich.

CERTIFIED PETOSKEY GOLDEN RUSSET Seed Potatoes. Nine years; hill selected for type and yield. \$6 per 150 pound sack. E. D. POST, Twin Boy, Farm, Alba, Michigan.

REGISTERED MICHIGAN BLACK BARB-less barley for sale. The barley with smooth beards. Write for prices. H. J. COY, Mason, Mich.

CHOICE WISCONSIN PEDIGREED BARLEY 5 bu. or more \$1.50 per bu. Bags free. Cash with order. B. F. HELLEM, Morenci, Mich.

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FOR SALE—THRASHING OUTFIT COMPLETE. CARL GORDON, Mt. Pleasant, R. 6 Michigan.

FOR SALE—INTERNATIONAL 8-16 (FOUR cylinder) tractor and John Deere two bottom plow. Price reasonable, would take Brown Swiss cow or heifer in part payment or will give terms on part. For particulars write J. HOWARD deSPELDER, Greenville, Mich.

WE HAVE THREE STUDEBAKER TRACTOR or attachments which can be used on any type Model "T" Ford Car. We will close these units out at \$25.00 a piece, f. o. b. Detroit. For further information communicate with HORTON & FEARL, 434 E. Milwaukee Ave., Detroit, Michigan.

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LOOMS—ONLY \$9.90—BIG MONEY IN weaving rugs, carpets, portieres, etc., at home from rags and waste material. Weavers are rushed with orders. Send for free book, it tells all about the weaving business and our wonderful \$9.90 and other low-priced, easily-operated looms. Union Loom Works, 266 Factory St. Boonville, N. Y.

AGENTS

AGENTS MAKE BIG MONEY SELLING OUR Silos. Write today for catalog and big commission proposition. NAPPANEE LUMBER & MFG. CO., Nappanee, Ind.

HELP WANTED

WANTED BY MAN WILLING TO GO ON farm or live in town. Protestant housekeeper or companion. Best of references. BOX "C," care Business Farmer, Mt. Clemens, Mich.

GENERAL

GET A GOOD JOB—WORK FOR UNCLE Sam. Men and women needed. \$1,400, \$1,600, \$1,800 at start. Railway mail clerk and other "exams" soon. Let our expert, former U. S. government examiner, prepare you. Write today for free booklet, D10, Patterson Civil Service School, Rochester, N. Y.

LIGHTNING RODS, EXCLUSIVE AGENCY and quick sales to Live Dealers selling "DIE-BLITZEN RODS." Our copper tests 99.96 per cent PURE. Write for Agency. Prices are right. L. M. Diddle Co., Marshfield, Wis.

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Without Cost

YOU HAVE two neighbors, who, for their own good and the good of the farming business in Michigan, should be reading this paper.

Get their subscriptions for 1 year at \$1 each and send us their names with the \$2. We will then renew your own subscription for a full year without charge.

Take this chance to get your subscription renewed and at the same time do two of your friends a favor.

This offer is limited so please act promptly.

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IS YOUR FARM FOR SALE

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



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(SPECIAL ADVERTISING RATES under this heading to honest breeders of live stock and poultry will be sent on request. Better still, write out what you have to offer, 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 size 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 here at special low rates: ask for them. Write today!)

BREEDERS' DIRECTORY, THE MICHIGAN BUSINESS FARMER, Mt. Clemens, Michigan.

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

BARTLETT'S PURE BRED ABERDEEN-ANGUS CATTLE AND O.I.C.
Swine are right and are priced right. Correspondence solicited and inspection invited.
CARL BARTLETT, Lawton, Mich.

AYRSHIRES

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

SWINE

POLAND CHINA

BIG BOB MASTODON

Sire was champion of the world. His dam's sire was grand champion at Iowa State Fair. 8 choice spring gilts bred that are pictures, sired by him. Also some sows bred to him for March and April. Priced low and guaranteed in every way. Get my prices.
C. E. Garnant, Eaton Rapids, Mich.

HERE'S SOMETHING GOOD

THE LARGEST BIG TYPE P. C. IN MICH.
Get a bigger and better bred boar pig from my herd, at a reasonable price. Come and see them. Expenses paid if not as represented. These boars in service: L's Big Orange, Lord Clansman, Orange Price and L's Long Prospect.
W. E. LIVINGSTON, Parma, Mich.

BIG TYPE POLAND CHINAS

A few choice spring boars and gilts sired by "Half Ton Lead," a good son of "Smooth Half Ton" Champion of Michigan in 1918. Gilts will be bred to Jumbo's Mastodon 2nd, son of Big Bob Mastodon for March and April farrow.
HOWLEY BROS., Merrill, Mich.

FARWELL LAKE FARM

L. T. P. C. boars all sold. A few spring boars and some gilts left. Will sell with breeding privilege. Boars in service: Clansman's Image 2nd, W. B.'s Outpost and Smooth Wonder. Visitors welcome.
W. B. RAMSDALL, Hanover, Mich.

BIG TYPE POLAND CHINA BRED GILTS ALL
sold, but have some fall gilts at reasonable price. Will be bred for fall litters.
DORUS HOVER, Akron, Mich.

THE BEST BRED POLAND CHINA PIGS SIRE
d by Big Bob Mastodon at the lowest price.
DEWITT C. PIER, Ewart, Mich.

L. S. P. C.—4 BOARS BY CLANSMAN'S IM-
AGE and Big Defender, that are extra good a few gilts left bred for April farrow, at Farmers' Prices.
H. O. SWARTZ, Schoolcraft, Michigan.

BIG TYPE POLANDS. AM OFFERING TWO
good growthy fall gilts, from best sow in our herd.
W. CALDWELL & SON, Springport, Mich.

BIG TYPE P. C. BRED SOWS ALL SOLD.
Closing out a few choice boars at a bargain also some extra good fall pigs, either sex. From growthy stock.
L. W. BARNES & SON, Byron, Mich.

BIG TYPE POLAND CHINAS

Three August boars for sale. Good backs and good heavy bone. Write for prices.
HIMM BROS., Chesaning, Mich.

B. T. P. C. A FEW TOP GILTS BRED TO
Highland Giant, the \$500 boar. Others bred to Wiley's Perfection. Weight, 700 at 18 months.
JOHN D. WILEY, Schoolcraft, Mich.

L. T. P. C.

I have a fine lot of spring pigs sired by Hart's Black Price, a good son of Black Price, grand champion of the world in 1918. Also have a litter of 7 pigs, 5 sows and 2 boars, sired by Prospect Yank, a son of the \$40,000 Yankee, that are sure Humdingers.
F. T. HART, St. Louis, Mich.

LEONARD'S BIG TYPE P. C. SPRING
boars, bred sows and the best litter of fall pigs in the state. Come and see or write.
E. R. LEONARD, R 3, St. Louis, Mich.

I Am Offering Large Type Poland China Sows,
bred to F's Orange at reasonable prices. Also fall pigs. Write or call.
CLYDE FISHER, R 3, St. Louis, Mich.

BIG TYPE POLAND CHINA BRED GILTS
sold. Some extra good fall pigs of both sex for sale. Write for breeding and price.
MOSE BROTHERS, St. Charles, Mich.

WALNUT ALLEY

herd has dams mated to sires that will make Poland China history for Michigan. Nothing to offer at present.
A. D. GREGORY, Ionia, Mich.

DUROCS

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

FOR SALE—DUROC JERSEYS; GILTS BRED
for April farrow to Gladwin Col. 188995. Also several extra good spring boars ready for service.
HARLEY FOOR & SON, R 1, Gladwin, Mich.

MEADOWVIEW FARM REG. JERSEY HOGS,
choice boar pigs for sale.
J. E. MORRIS & SON, Farmington, Mich.

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

PEACH HILL FARM
offers tried sows and gilts bred to or sired by Peach Hill Orion King 162490. Satisfaction guaranteed. Come look 'em over.
Also a few open gilts.
INWOOD BROS., Romeo, Mich.

AM OFFERING SOME HIGH CLASS SPRING DUROC BOARS

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

Duroc sows and gilts bred to Walt's King \$2949
who has sired more prize winning pigs at the state fairs in the last 2 years than any other Duroc boar. Newton Barnhart, St. Johns, Mich.

FOR SALE: REG. SOW PIGS OF SEPT. FAR-
row. Maple Law's Pathfinder is the name of my new herd boar. Nuf sed.
V. N. TOWNS, R 6, Eaton Rapids, Mich.

OAKLANDS PREMIER CHIEF

Herd Boar—Reference only—No. 129219

1919 Chicago International

4th Prize Jr. Yearling

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

DUROC JERSEY SOWS AND GILTS, BRED
for April and May farrow. 1,000 lb. herd boar.
JOS. SCHUELLER, Weldman, Mich.

REG. DUROC BOAR PIGS, OCT. FARROWED.
Sired by Prince Col. Wonder No. 172017. Don't wait. Price \$15.00.
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DUROCS—SOWS AND GILTS ALL SOLD.
Have a few choice fall boars at reasonable price.
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FOR SALE—DUROC BRED SOWS AND GILTS
priced reasonable and double immune. Write us your wants.
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FOR SALE: ONE DUROC BOAR FROM
Brookwater breeding stock. Choice spring pigs.
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Durocs, Hill Crest Farms. Bred and open sows and gilts. Boars and spring pigs. 100 head. Farm 4 miles straight S. of Middleton, Mich., Gratiot Co. Newton & Blank, Perrinton, Mich.

DUROC BOARS FROM PRIZE
WINNING STOCK
ready for service. Geo. B. Smith, Addison, Mich.

WE OFFER A FEW WELL-BRED SELECT-
ed spring Duroc Boars, also bred sows and gilts in season. Call or write.
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BUY PIGS NOW

Registered Duroc Pigs crated and delivered to express station for \$20 each. This is choice stock sired by State Fair winners and weighing near 100 pounds. Write for particulars.
MICHIGANA FARM, Pavilion, Mich.

O. I. C.

O. I. C. AND CHESTER WHITE SWINE.
Choice spring pigs of Feb. and March farrow to be shipped at 8-10 weeks old. Prominent bloodlines. My prices will surprise you.
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O. I. C.

15 last spring gilts weighing from 225 to 340 pounds. Write for prices.
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O. I. C.

GILTS BRED FOR SPRING FARROW
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FOR SALE 10 MONTH OLD O. I. C. BOAR
price \$50. First check takes him, papers free.
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SAGINAW VALLEY HERD OF PRIZE WIN-
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FOR SALE—CHESTER WHITE BOAR NO
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Weaned pigs of the very best blood lines of the breed is our specialty. We guarantee to please or nothing stirring.
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At 8 Weeks Old

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HAMPSHIRE BRED GILTS ALL SOLD.
Spring and fall boar pigs at a bargain.
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We are offering some good sows and gilts, bred for March and April farrowing. Also a few choice fall pigs, either sex. Write or call.
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FOR SALE—REGISTERED YORKSHIRE PIGS
either sex \$12 each at weaning time.
RAY JONES, R 1, Chesaning, Mich.

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BETTER BREEDING STOCK

For the best in Shropshire and Hampshire rams write or visit.
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Coldwater, Mich.
See our exhibit at the Ohio and Michigan State Fairs.

FOR SHROPSHIRE EWES BRED TO LAMB
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A few good yearling rams and some ram lambs left to offer. 25 ewes all ages for sale for fall delivery. Everything guaranteed as represented.
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FOR SALE, FLEMISH GIANT RABBITS, DOES,
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creams at \$3 per pair or \$4 a trio.
WALLACE GODFREY, Jonesville, Mich.

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EWALT'S SIR HECTOR
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Service Fee \$15.00

Beautiful thoroughbred, sable and white Collie puppies bred from farm trained stock that are natural heel drivers with plenty of grit, at the following reduced prices: Males or operated (spayed) females—\$15.00. Pedigree furnished with each puppy. Also a few exceptionally well bred sable and white Shepherd puppies, but am unable to furnish pedigrees.
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The Michigan Business Farmer,
Mt. Clemens, Mich.

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Advertisements inserted under this heading at 30 cents per line, per issue. Special rates for 13 times or longer. Write out what you have to offer and send it in. We will put it in type, send proof and quote rates by return mail. Address The Michigan Business Farmer, Adv. Dep't, Mt. Clemens, Michigan.

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offers young stock and a few mature breeders in White Chinese Geese, White Runner Ducks and White Wyandottes. Also Q. I. C. spring gilts. Write today for prices on what you need.
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Two great breeds for profit. Write today for free catalogue of hatching eggs, baby chicks and breeding stock.
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WHITE WYANDOTTE COCKERELS, MAY & JUNE hatch. Fine birds \$2.50 each.
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Martin strain White Wyandottes. Grand utility and exhibition matings. Winners at W. Mich. Poultry Show at Muskegon. Order early to avoid disappointment. Cockerels all sold. Send for descriptive price list.
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EGGS
FOR Hatching
100 per cent fertility guaranteed
Send for our big catalog

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Safe Arrival guaranteed
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We have the world's greatest layers. You can have them too. If you get our eggs, chicks or stock. There is big money in poultry. If you have heavy laying stock. Send today for our big free instructive catalog. It gives prices for eggs, chicks and stock and much other information. Send for it today before placing your order elsewhere.
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In S. C. White, Buff and Brown Leghorns, Anconas, White and Barred Rocks, S. C. and R. C. Reds, White Wyandottes and W. Orpingtons. Our stock is on free range, Standard and bred for heavy laying. Chicks are strong and healthy. Hatched and shipped by most modern methods. We send you nothing but the best, hot out of our own incubators, to your door by prepaid parcel post and guarantee safe, live delivery. GET OUR BIG BARGAIN OFFER on chicks and brooders and save money. Circular free.
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BARRED ROCKS. COCKERELS AND PULLETS bred from Detroit and Boston winners. Low prices. Satisfaction guaranteed.
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BARRED ROCK EGGS OF A LAYING STRAIN, large, well barred. Pens headed with pedigreed males. \$1.75 per 15; \$4.50 per 45.
N. AYERS & SON, Silverwood, Mich.

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WHITTAKER'S R. I. RED CHICKS AND EGGS Both Combs. Michigan's Color and Egg strain. Prepaid and safe delivery guaranteed. Send for free catalog.
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ORPINGTONS COCKERELS AND PULLETS for sale. Buff, White, Black Cockerels at \$7, \$8 and \$10. Pullets at \$8 and \$5. Also yearling hens \$2 and \$4. Hatching eggs, \$6 per setting of 15.
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ANCONAS
PRIZE WINNERS AT THE BIG SHOWS and the greatest of layers. Eggs for hatching and Baby Chicks from prize yards and heavy laying flocks.
S. C. W. Leghorns. Flock average 267 eggs per year per hen. Eggs and Baby Chicks.
Also Baby Chicks from selected purebred, range raised flocks in Reds, Barred and White Rocks, Brown and Buff Leghorns, Orpingtons, Minorcas. Get prices from us before buying elsewhere. All Eggs and Chicks safely delivered by Prepaid or Parcel Post.
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(Read below)

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S. C. BUF FLEGHORNS
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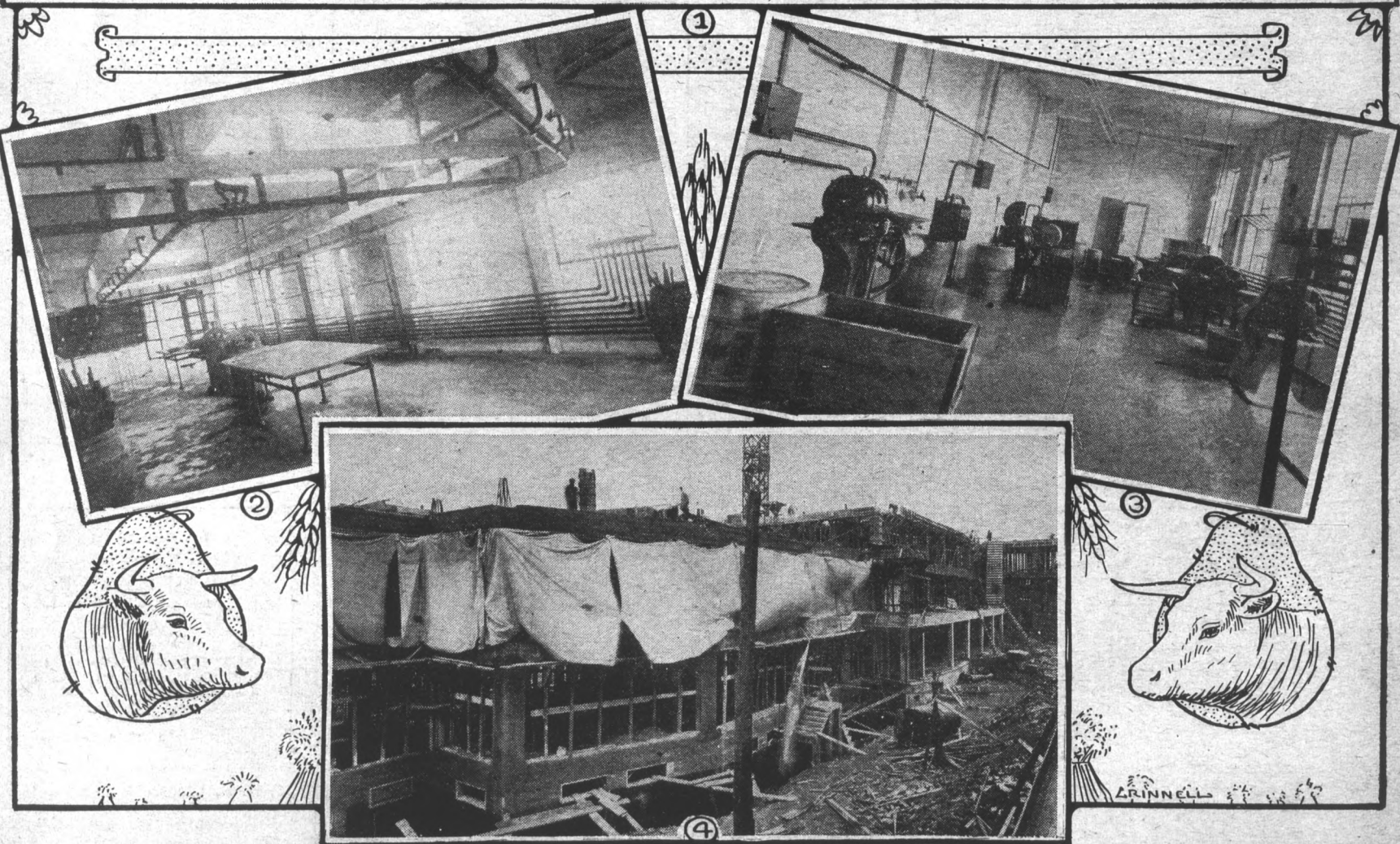
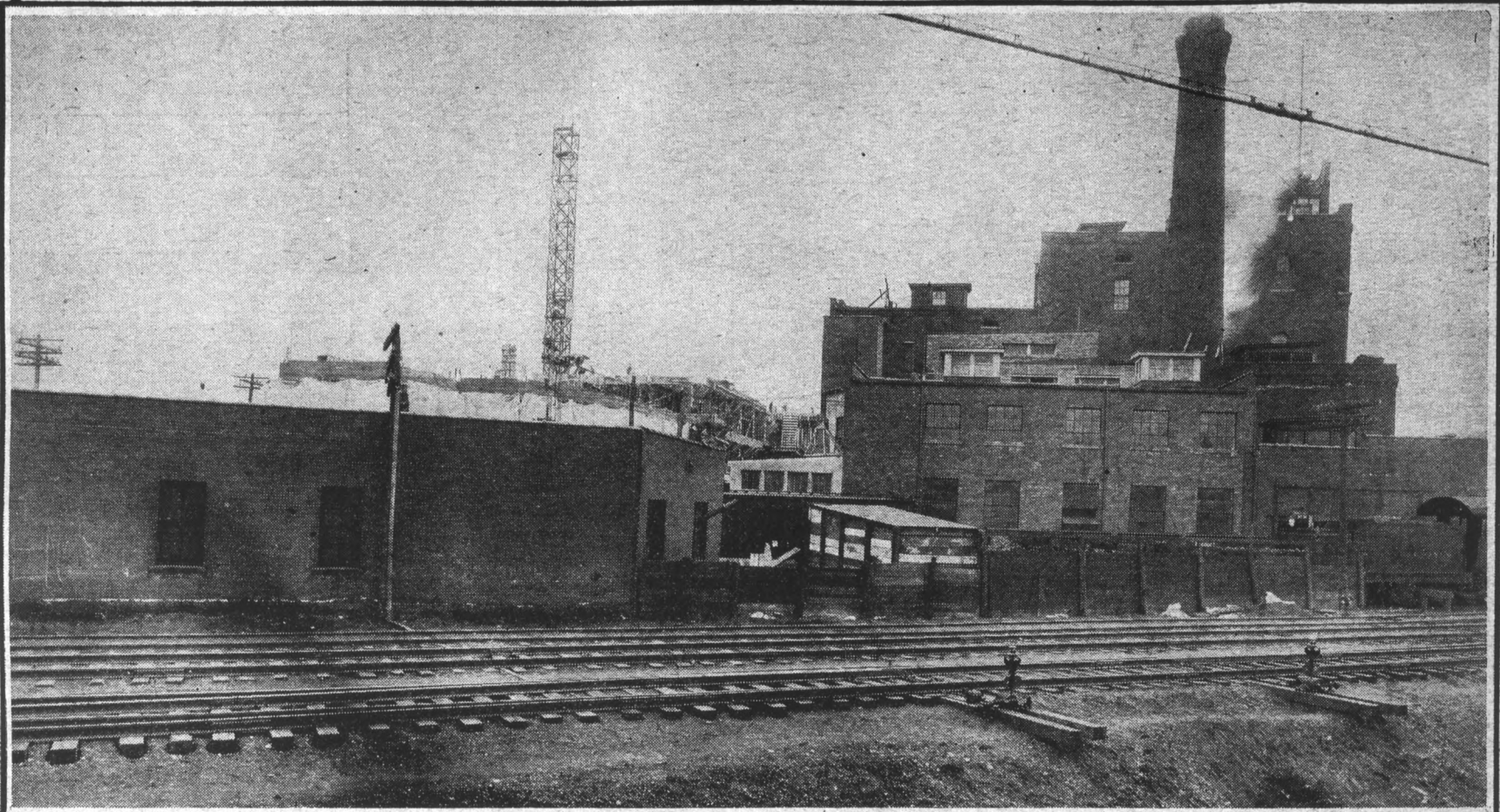
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Putting your offering before the prospective buyers of the entire state means better prices and a better market.

By placing your ad. in M. B. F.'s poultry directory you cover the entire state.

START YOUR AD IN M. B. F. NOW!

Photographic Proof of Progress



DETROIT PACKING COMPANY

ADV.

(1) View Showing Old Plant and Power House from the 600 feet of frontage on Michigan Central Railway tracks, showing refrigerator car backing in to one of the two switching tracks on the property owned by the Detroit Packing Company. In the background can be seen the new concrete and tile buildings under construction. (Photo taken March 15, 1921.)

(2) Sausage Stuffing Room, facilities for working two gangs. Sausage department is equipped to produce in excess of 100,000 pounds or fifty tons, per week. Department completed and now in operation. (Photo taken March 15, 1921.)

(3) Interior View of Sausage Grinding and Mixing Room, showing the two complete batteries of up-to-date machinery, each machine direct electric motor driven. (Photo taken March 15, 1921.)

(4) New Manufacturing Building where all slaughtering and handling of by-products will be handled. Slaughtering on the top floor, hide-cellar in the basement, by-products handled on intermediate floors, largely by automatic machinery. Building about half completed. Will be five stories and basement. Photo taken March 15, 1921.)