

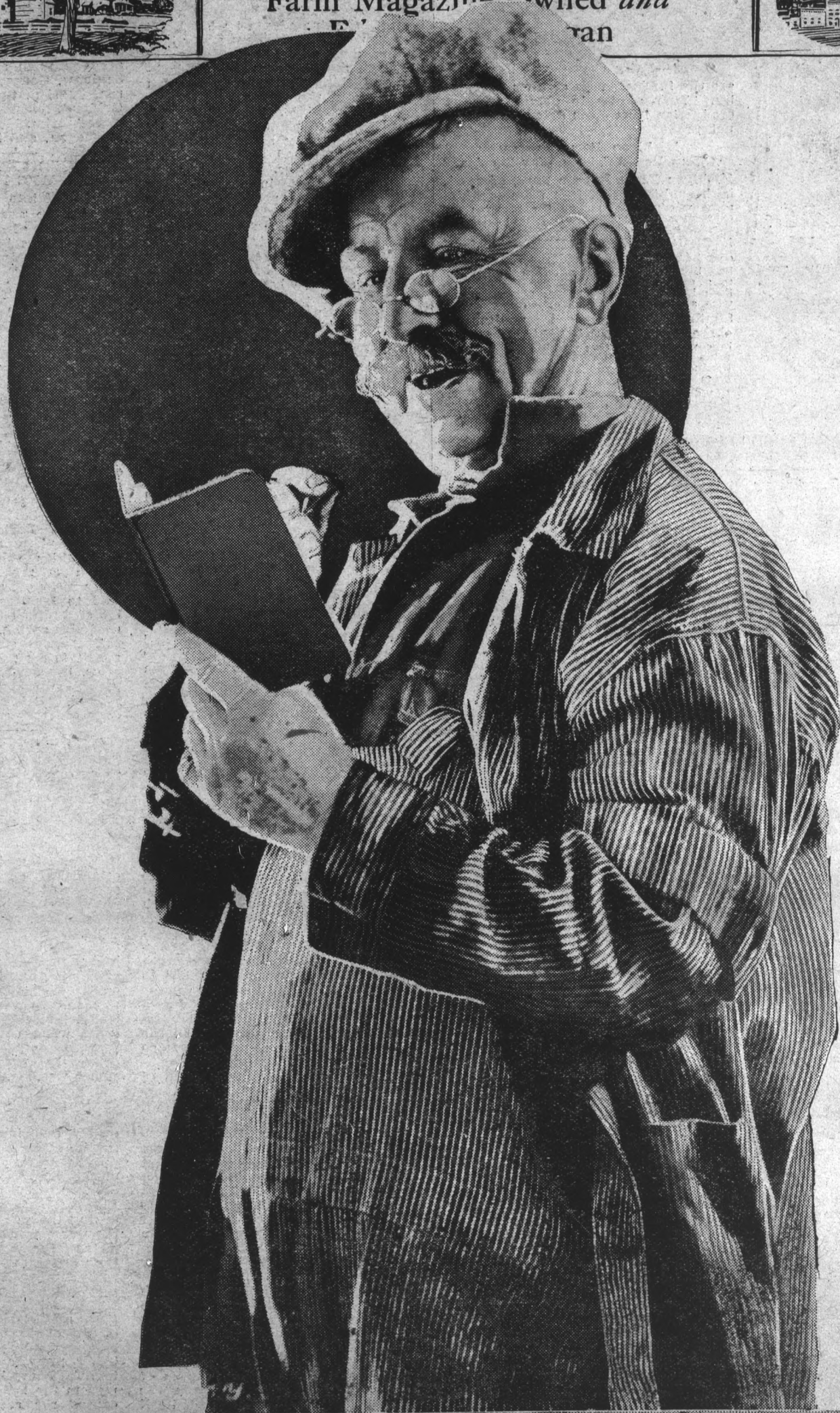
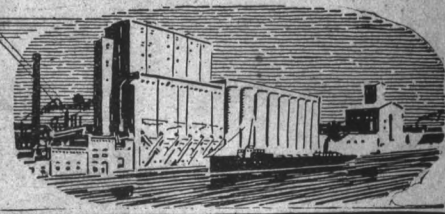
VOL. XV, No. 10

JANUARY 21, 1928

The Michigan BUSINESS FARMER



*An Independent
Farm Magazine Owned and
Published by the Michigan Farm Bureau*



"TAXES PAID AND MONEY LEFT!"

In this issue: Instructions for Forming Anti-Thief Association, Page 4—Farmers' Week, Page 3

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The Business Farmer Editorial Ballot

Below we are listing several regular features or departments in the Business Farmer with a square opposite in which we will appreciate your indicating by number the ones you read regularly in the paper in the order of their importance. That is, if you like the serial story best, write the figure 1 in the square opposite that feature, the next choice should have the figure 2 in the space opposite, and so on. Any feature not listed which are desired may be written in the blank spaces.

This ballot will be published for several issues so that each member of the family may vote his or her preference. When the children vote their preference they should give their age, also. Be sure to sign your correct name and address and mail to the Editor of The Business Farmer, Mt. Clemens, Mich. Thank you.

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|--------------------------------|--------------------------------|
| () Picture Page | () Collection Box |
| () Agricultural Teacher Chats | () Dairy and Livestock |
| () Broadscope Farm News | () Veterinary Department |
| () Farmers' Service Bureau | () With the Farm Flock |
| () Bulletin Service | () Peter Plow's Philosophy |
| () Sermon | () Fruit and Orchard |
| () Our Radio | () Coming Events |
| () Serial Story | () Markets |
| () "Here's How" Cartoon | () Weather Forecasts |
| () Where Our Readers Live | () Current Agricultural News. |
| () What the Neighbors Say | () The Farm Garden |
| () Editorials | () A Smile or Two |
| () Publisher's Desk | () County Crop Reports |
| () The Farm Home | () The Experience Pool |
| () The Children's Hour | () Our Book Review |
| () Song of Lazy Farmer | () Visited by Thieves |

Name Age.....
 Address

Current Agricultural News

INVENTS PLANT SETTER

FARMERS in the future will be able to plant larger acreages of truck crops and sugar beets and produce them at less cost per bushel or ton as a result of a new automatic plant setter perfected here by Simon W. Vollink, field representative of a large pickle manufacturer.

The machine is designed to relieve growers of the backaching job of transplanting plants by hand. It may be used to transplant sugar beet plants, thus relieving producers of the costly and tiresome task of blocking and thinning the crop after it comes up in the spring.

Specialists at Michigan State College tested the plant setter in 1927 and report it gave satisfactory service and was found to be practical. Prof. George Starr, vegetable plant breeder, used it in transplanting radishes for seed production. Two of his men transplanted 2,080 radish plants in exactly 29 minutes and a perfect stand was obtained.

The plant setter operates under its own power, and has three speeds forward and one backward. It has a capacity for setting 20,000 to 50,000 plants in a 10-hour day, the number varying with spacings in the row and the size of the plants.

Mr. Vollink and others who have viewed the machine in operation believe it will revolutionize truck growing and sugar beet farming in Michigan and other states.

SCHEDULE MEETINGS FOR CHICK GROWERS

MEANS of avoiding excessive losses among baby chicks and methods of growing chicks to a productive age will be subjects for discussion in a series of meetings to be held in 20 Michigan counties this year, according to a statement made by the poultry department at Michigan State College.

A group of poultrymen in each of the counties will attend four meetings at which housing, feeding, and controlling the disease of baby chicks will be discussed by specialists from the college. The local men will relay this information to their neighbors.

A model brooder house will be built at the home of one of the local leaders in each county at the time of the February meeting. The M. S. C.

agricultural engineering department will supervise the building of the brooder house.

Each person who enrolls for the course in chick raising will keep records of the death losses among his birds and the cost of growing chicks to maturity.

Pullets raised by members of the course will be exhibited at meetings to be held in July in each county. The pullets will be judged by production standards.

The counties in which meetings are scheduled are: Huron, Tuscola, Saginaw, Genesee, Allegan, Van Buren, Berrien, Cass, Ingham, Branch, Oakland, Macomb, Charlevoix, Emmet, Antrim, Mecosta, Kent, Ottawa, Muskegon, and Newaygo.

SPRUCE ENTERS RANKS OF STATE FARM CROPS

LOOK into the future and a desire to avoid losses occasioned by lack of raw materials for use in their mills has led one of Michigan's manufacturers of paper pulp to cooperate with Michigan State College forestry department in a project to make white spruce a new crop for state farmers.

Buyers of pulpwood find that the supply of spruce is decreasing at a rate that threatens a shortage of the wood in the future. Six companies in Michigan have an investment of millions of dollars in mills that are equipped to handle spruce for manufacture into pulp.

These mills will have to be remodeled at a great financial loss to equip them to handle any wood that requires a different manufacturing process than is used for spruce.

The Port Huron Sulphite Paper Company, Port Huron, two years ago agreed to purchase white spruce seed which would be planted and grown in the forestry nursery at State College, and the young trees sold to farmers at cost. The first lot of 200,000 trees will be distributed this spring.

The trees should be planted on moist, fairly fertile soil. The trees grow to marketable age in thirty years. Planting should be made on ground that is not producing returns from ordinary crops.

I am a paid-up member of M. B. F. and think it is the best farm paper that I ever had.—E. Carpenter, Lenawee County.

Jardine Says Beef Prices Not Too High

THE following statement has been made by W. M. Jardine, Secretary of Agriculture, relative to the present high price of beef:

"The present prices for beef, which are causing complaints and threats of boycott in some places, seem unduly high only because they are compared with prices of the past few years, which were ruinously low to the cattle grower. This year, for the first time since 1920, cattlemen as a whole have received fairly remunerative prices for their cattle. In the other six years cattle prices were so low most of the time that large numbers of producers were forced out of the business and cattle numbers have been drastically reduced.

"At various times in the past two years when I have addressed gatherings of cattlemen I have called the attention of the public to the fact that the present situation was almost certain to develop. The department also has issued many statements pointing out that cattle slaughter was greatly exceeding production and that sooner or later a sharp reduction in slaughter and higher prices must result.

"This was a situation which should have been of vital interest to the consuming public. As long as cattle prices were low and beef cheap, however, consumers were unconcerned as to the hardships of the cattle industry or as to the future of the beef supply. Consequently the situation was allowed to work itself out through the uncontrolled action of the economic forces, with the result that the reduction in herds probably went too far and cattle slaughter for the next few years must be reduced much below the

average of that of the last five years if the cattle business is to be re-established on a basis where the number of animals slaughtered does not exceed the number of young animals raised.

"Another factor in the situation is that distribution costs are much higher than before the war. This increase is due to a very considerable extent to increased wages and salaries in the various industries and trades interested in this distribution. Even when cattle prices in recent years were actually below pre-war prices the cost of beef to the consumer was high, compared with pre-war prices. Now, with the prices of cattle no higher than necessary to insure reasonable returns to the industry and insure adequate future supplies, this increase in the cost of cattle must be paid by the consumers of the beef."

Secretary Jardine points out that the cattle industry was expanded during the war period so that when the war was over the supply of cattle and the possible production was far greater than that needed during peace times. During the process of liquidation of the cattle industry, which took six years because of the time required to increased or decrease cattle numbers, prices were held very low, part of the time being below pre-war levels. In his opinion, the heavy losses taken by cattlemen in the latter part of 1926, have caused the recent shortage in the better grades of cattle. Due to small numbers of cattle sent into the corn belt this year, probably the cattle supplies for the first part of 1928 will be smaller than in 1927 or any of the past four years.

THE ONLY
FARM MAGAZINE
OWNED AND
EDITED IN
MICHIGAN

Published Bi-Weekly at
Mt. Clemens, Michigan

"New to the line, let the chips fall where they may!"

The Michigan BUSINESS FARMER

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GEORGE M. SLOCUM
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MILON GRINNELL
Editor

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Farmers' Week to be Bigger and Better than Ever

All Roads Will Lead to Michigan State College During Week of January 30 to February 4

FARMERS' WEEK at Michigan State College started in the days when timely topics for discussion were whether or not silage made the cows teeth fall out and whether or not it was possible to grow alfalfa in Michigan. Tractors were talked of in whispers and the speaker who believed that such devil-wagons would ever have any practical use was hooted as a crack brained carpenter of fables.

The theory that steel plows poisoned the soil was quite widely discredited but every one knew that when salt pork was laid down in the wrong time of the moon that the pork barrel would yield up only rinds and shriveled pieces of meat. Any one that got himself up on a platform and said that the day would come when a five thousand dollar crop of fruit could be marketed to people driving by the farm would have found himself in a padded cell with a corps of attendants.

The art of farming is only one generation past the days of the reaper. Common farming practices of today were then unthought of and in a few more years today's practices will be much derided. The marcher in the agricultural procession must walk at the quickstep or he will find himself far from camp at sunset.

New methods of handling soils, new brands of fertilizer, new sources and kinds of seeds, new cultural practices, new harvesting machinery, new labor problems, new marketing facilities, new conceptions of feeding and clothing the farm family, new amusements, new means of transportation, and new systems of taxation are a continuous source of interest to rural dwellers today.

Farmers' Forum

Farmers' Week, which is held this year January 30 to February 3, is intended to be a farmers' forum. Speakers who are believed to have information that would be of value to the farmers of Michigan are secured to talk at the general meetings, afternoon and evenings. The forenoons are left open for the group meetings of the associations that represent the special interests of the farmers.

Most of the livestock breeders' associations, the four associations that represent the dairy farmers, the poultry breeders, the crops men, and bus-

iness and social organizations that enlist their membership for the country hold their annual meetings during the week. Many of the groups hold banquets for which a special program is provided.

Meetings for farm wives are held in the home economics building. The progress in the study of foods and their uses has been as rapid as the advance in other rural interests. Clothes are always interesting and the newer methods of design will be discussed.

Arrange Eight Shows

Visitors to the campus will find eight shows arranged to show a part of the progress of rural life. The grain show will exhibit, as a display feature, the samples of Michigan grains and seed that won honors for State at the International Hay and Grain Show. These samples will not compete for prizes.

An innovation this year is the commodity show. Each year, one Michigan product will be chosen and an exhibit will be set up to show late practices in seed selection, cultural methods, means of harvesting, and ways of marketing. This year potatoes are the commodity selected to be displayed. The Michigan Potato

Producers' Exchange at Cadillac is cooperating with the College in putting on this show.

The engineering department at the College is again giving an electrical show. This event is of especial importance this year as the results obtained on the Experimental Power Line at Dansville have aroused a great deal of interest in electricity as a source of farm power.

Big Show of Potatoes

Sectional potato shows which have been held this fall in the State have drawn entries from 1,700 farmers. A great many of the prize winning exhibits at these previous shows will compete at East Lansing. Last year, the growers from the Mayville district cut into the array of ribbons that have always gone to the southern part of the State, and, this year, the potato raisers from southwestern Michigan will enter tubers which they believe will win prizes in any kind of competition.

This year's apple show will demonstrate that Michigan apples have appearance as well as quality. One of Michigan's newer agricultural interests will display their products at the flower show. Since the quarantine laws made the importation of bulbs

an impossibility, the commercial growing of bulbs has taken forward strides in the State.

A large egg is of more value to a hungry man than a small egg but there is a discrimination in price against both sizes in trade channels. Egg shows are held to give poultry men a chance to examine properly graded eggs. The grading is for size, color, and shell texture. Last year's egg show at the College drew 200 entries and more are expected this year.

Corn Contest Winners

Winners of the five acre corn growing contest in the State will be announced and the figures on yields and costs of producing the winning crops will be displayed at the grain show.

The list of speakers includes Edward O. Wentworth, Chicago, who has made an exhaustive study of the influences of economic conditions in the city as a factor in affecting farm produce prices. William Oxley Thompson, president emeritus of Ohio State University, will present his conception of the function of the Land Grant Colleges, Director G. I. Christie, Purdue University, will relate his impressions of European agricultural conditions.

Professor W. H. Hobbs, University of Michigan, will have as a subject, "Explorations About the North Pole." Doctor Ada Arlett, University of Cincinnati, will discuss "The Child and Its Parents."

Members of the College staff will appear on the programs to present a view of some of the newer phases of extension and research work that have been carried on during the past year. The list includes President K. L. Butterfield; Dean R. S. Shaw; Professor O. E. Reed, dairy department; Professor V. R. Gardner, horticultural department; and R. Wayne Newton, economics department.

Ketcham to Talk

The State Commissioner of Agriculture, H. E. Powell, will be chairman of the afternoon program on Wednesday, February 1. Congressman J. C. Ketcham, Hastings, will have a message to present on the national legislation now in the congressional hopper.

Representative Ketcham will be at the College Thursday afternoon, February 2.

To Continue T. B. Testing of Cattle

WHEN the funds for carrying on the work of testing cattle for tuberculosis became exhausted the first of this year it looked as though all work would have to be discontinued until July 1st, of this year, when the new appropriation begins, but Gov. Fred W. Green saved the day by asking and receiving authority from the state administrative board to release funds for the work until July 1st.

The last legislature appropriated \$225,000 for the work during the present fiscal year. This has been spent and it has been estimated it will take upward of \$100,000 more to carry on the work until July 1.

"The trouble has been that in examining cattle in Oakland county 15 per cent have been found to be reactors," the governor told the board. "As a result, the indemnities to the owners of the cattle have run much higher than was anticipated.

"We have no intention of discontinuing the work, and will carry it on just as rapidly as we can. No work will be stopped in any county where original or re-tests are in progress, although it is probable work will not be started in any new county until after July 1."

Would Not Take Milk

Some weeks ago Gov. Green informed the state department of agriculture that all testing work would stop Jan. 1. At once Chicago and Detroit notified the state health departments that a ban would be placed on Michigan milk from untested cows if this action were taken.

A loud protest also went up from the dairy interests of the state. The governor later explained what he meant when he was quoted some weeks ago that no additional counties could be taken on until after the beginning of the next fiscal year.

Fight Against Corn Borer to be Carried on Vigorously This Year

"THE fight against the European corn borer will be carried on vigorously in 1928," said A. F. Woods, director of Scientific Work for the United States Department of Agriculture in opening the conference held January 3rd on corn borer research. The conference was attended by the deans of agricultural colleges, directors of experiment stations, and other scientists from 14 states.

"The department's activities," Doctor Woods said, "will include co-operation with the states in a comprehensive research and control program and in an intensive educational campaign in the infested area. Quarantine measures, the cleaning up of river valleys, and other precautions against long distance spread will also be taken by the department in co-operation with the state authorities."

The program as outlined by the

Department of Agriculture and the states carrying on corn borer research was accepted by the conference as a complete program for 1928 and the following committee authorized by a resolution appointed to review and correlate the various phases: G. A. Dean, Kansas, representing the American Association of Economic Entomologists; H. H. Musselman, Michigan, representing the American Society of Agricultural Engineers; L. E. Call, Kansas, representing the American Society of Agronomy; C. R. Arnold, Ohio, representing the American Farm Economic Association; together with H. G. Crawford, Ottawa, Canada; W. P. Flint of Illinois, and R. B. Gray and D. J. Caffrey of the United States Department of Agriculture.

D. J. Caffrey of the Bureau of Entomology outlined the entomological research program of the department

at the conference. This program, Mr. Caffrey said, includes a further study of the efficiency of the various control measures now being used, of the determination of any additional plants upon which the borer exists or is harbored, investigation of the life habits of the borer in this country and in Europe, studies of parasitic and other deterring agencies, and the effectiveness of various insecticides.

The agronomic research relating to corn borer control, which is being done under C. R. Ball, office of cereal crops and diseases, Bureau of Plant Industry, includes the breeding of varieties of corn more resistant to borers, studies on the effects of abnormal planting, and substitute crops. The Bureau of Animal Industry is making a study of adjustments in farm livestock plans necessary because of borer infestation. The

Bureau of Chemistry and Soils is studying the possibilities in use of insecticides and mapping the soil of the infested regions for further correlation and study of the infestation.

The Bureau of Agricultural Economics plans by means of surveys and analyses to furnish data on the kinds of farming now being done in each area, the methods of caring for the corn crop, and the costs of control measures.

Work now in progress in Ohio, New York, Pennsylvania, Indiana, Illinois, Michigan, and other states concerned, was discussed at the conference. E. N. Transeau, head of the department of botany, Ohio State University, who recently returned from a trip through various European countries infested with the borer, gave the results of his studies on the distribution of the pest

(Continued on page 26)

Form an Anti-Thief Association in Your County

Much Can Be Done Through Organization to Discourage Stealing from Farmer

By MILON GRINNELL

FOR some time we have been studying the farm thievery problem and two weeks ago we published an article giving you the results of our study. You remember that we stated much of the success of our campaign to get rid of the thief depended upon the farmer and we made the following recommendations:

1. Put good locks on the doors of all buildings and either bar windows or fasten them shut.
2. Install burglar alarms.
3. Mark poultry with an identifying mark which is registered with poultry dealers and sheriffs.
4. Organize county-wide anti-thief associations.
5. Learn to shoot and do not hesitate to do so when necessary.
6. Enforce poultry dealers' registration law.

We told you about the burglar alarms and THE BUSINESS FARMER's Poultry Marker. Perhaps you have already ordered one or both but if you haven't we want to suggest that you get one of our special poultry markers at once. There is an order blank published elsewhere in this issue. You cannot spend \$1.50 more wisely if you have even only a small flock. Remember, we are urging you to buy this only for your own good as we do not make one cent on it—selling it at just what it costs us as a service to the farmers of Michigan. We have said that the farm thief must go and we mean it.

Anti-Thief Associations

Our fourth recommendation is that county-wide anti-thief associations be formed.

In several western states there are associations of this kind that are operating very successfully. For example, the losses from poultry thieves in Cleveland county, Oklahoma, used to be from \$1,500 to \$2,000 a month. Then an anti-thief association was formed and losses dropped off to almost nothing. In fact, during the first three weeks of its existence not a theft was reported.

The association was brought about by eighty farmers who asked the county officials to meet with them to form such an organization. Every farmer paid a dollar membership fee and signed a note for \$2 payable on

demand, with the understanding that the money was to be used for the paying of rewards for thieves. On top of that, the folks who were there chipped in a total of \$300 right then, just to see that the reward fund got a good start.

Every member marks his poultry, and posts a sign at the entrance to his farm stating that he is an association member, that his chickens are marked, and a reward of \$100 will be paid for any thief caught and convicted. Also they had posters printed regarding their association and the rewards being paid for poultry thieves. These posters were put up in produce houses in all of the towns in all directions from Cleveland county.

This association is an example of what can be done in any community—in your own community, if you will but "start something." To form such an association you will need a constitution and by-laws, of course, and a form for the reward note which all of the members should sign. The following is a suggested form for both:

Constitution and By-Laws

Article I. Name—The name of this association shall be the _____ Protective Association.

Article II. Purposes—The purpose of this association shall be to protect the farm property of its members against theft, burglary, arson and other crime and to promote

the arrest and conviction of persons molesting farm property.

- a. By posting reward signs.
- b. By offering reward for the capture and conviction of thieves and trespassers.
- c. By cooperating individually and as a body with regularly constituted law enforcement officials.
- d. By urging members to equip their farm buildings with locks and warning devices.

Article II. Members—Any farmer (or business man who wishes to support the efforts of the association) with a reputation for honesty and integrity residing in the county, may become a member by signing the constitution and by-laws and paying the annual membership fee, together with the first assessment for the payment of rewards.

Article IV. Fees—The membership fee shall be 50 cents, payable annually.

Article V. Reward Fund—For the purpose of raising a fund for the payment of rewards, the sum of \$2.50 shall be paid with the original membership fee, all of which sum of money in excess of the membership fee shall be deposited to the credit of the reward fund of the _____ Protective association. When such fund shall have been exhausted in the payment of rewards, additional assessments may be levied and collected by presenting to the respective banks of members the reward pledge

note which each member shall sign; provided, that in no case shall total assessments for rewards exceed \$5.00 per member per year.

Article VI. Persons Entitled to Reward—Any person claiming the reward herein provided must show to the satisfaction of the executive committee of this association that he is the person primarily responsible for the arrest and conviction of the person committing the theft or other crime. The executive committee shall order the secretary-treasurer to pay the reward to the person designated. In case of disagreement as to whom the reward shall be paid, the judge in whose court the thief shall have been tried and convicted shall make the final designation.

Article VII. Officers—Officers of this association shall consist of a president, vice-president and a secretary-treasurer, all of whom shall serve without pay. Officers shall serve for terms of one year or until their successors are duly elected. In case of a vacancy, the executive committee may make an appointment from the association membership to fill out the unexpired term.

Article VIII. Duties of Officers—**Sec. 1.** The duties of the president shall be to preside at all meetings, to call special meetings and to act as the executive officer in conducting the affairs of the association.

Sec. 2. The duties of the vice-president shall be to act for the president in case of his inability or absence.

Sec. 3. The duties of the secretary-treasurer shall be to send all notices to members; attend to correspondence; post or have posted notices of rewards upon authority from the executive committee, and keep an exact record of the business of the association, including a complete record of each case for which the association is liable for the payment of a reward.

As treasurer of the association he shall keep a roll of the membership showing payment of dues and reward assessments, receive all money paid to the association, pay out same upon order of the executive committee and render an exact accounting of the same. He shall make a bond in such amount as the executive committee shall determine.

(Continued on Page 21)

SEND IN NAMES AND ADDRESSES OF DEALERS

WE want a complete list of the poultry dealers in Michigan; in fact, we must have it if our chicken thief eradication campaign is to be a success. If Michigan had a poultry dealers' license law, requiring every dealer to be licensed, this list would be available at Lansing, but it has not so we are going to compile our own list, with your assistance. We have a fairly complete list but it is not good enough for our purpose and we are asking your help to make it complete. Send us the names and addresses of all poultry dealers in the towns and cities nearest to you. If all of you will do this we will soon have a most complete list. Then we can send out our lists of folks who buy The Business Farmer Poultry Marker and be sure that they are going wherever they should go. Help us to help you.—Editor.

Spartan Barley Out-Yields Wisconsin Pedigree in 1927 Tests

By R. H. MORRISH

Extension Specialist in Farm Crops, Michigan State College

of forty-three bushels was obtained with Spartan Barley, holding a lead of thirteen per cent over the Wisconsin Pedigree and fifty-one per cent over the highest yielding local variety planted there.

Another test was conducted in

Kent county, on the farm of M. H. Lawrence at Greenville. In this field, seven different varieties were planted. Here the Spartan out-yielded all of them by eight per cent and Wisconsin Pedigree by forty per cent, the yield for the two-rowed va-

riety being twenty-six bushels per acre, as compared to twenty-four for Michigan Black Barless and eighteen for Wisconsin Pedigree.

Led 4 Other Varieties

In Eaton county, two fields were planted, one on the farm of Joe Lamie and the other on the farm of S. K. Burleson, both of Charlotte. On Mr. Lamie's, five different varieties were planted and the results show Spartan in the lead with a yield of thirty-three bushels per acre, Michigan Black Barless with thirty-two and Wisconsin Pedigree with twenty-six. On Mr. Burleson's farm, the Spartan gave a yield of forty bushels, as compared to the twenty-eight bushels per acre from Wisconsin Pedigree.

On the farm of H. C. Lang of Beaverton, Gladwin county, the Spartan also was leading by over twenty-five per cent.

On an average for this year, Spartan two-rowed out-yielded Wisconsin Pedigree by over twenty-eight per cent in the eight over State variety demonstrations which were planted and harvested. These tests will be continued in 1928.

A limited amount of Spartan Barley seed has already been allotted to experienced certified barley seed growers, to be increased under the supervision of the Michigan State College and the Michigan Crop Improvement Association and, in all probability, by planting time in 1929 there will be a fairly large supply of seed available for general distribution.

IN a series of eight barley variety tests conducted on Michigan farms during 1927, the new Spartan two-rowed variety gave promise of being one of the best barley varieties now available for Michigan. The Spartan is a variety which has been bred and developed by the Michigan Experiment Station under the direction of Professor E. E. Down. It is a smooth-awned, two-rowed, very stiff strawed variety and is apparently very well adapted to Michigan conditions.

In the past three years, this variety has out-yielded the well known Wisconsin Pedigree, which is very widely grown in this State, on an average of twenty per cent. The results for 1927 show that it is still in the lead by a somewhat greater margin.

Two test fields were placed in Tuscola county, one of the leading barley producing counties in the State. These tests were on the farms of Henry Lane at Fairgrove and Bert Thurston at Vassar. In the first test, Spartan was ahead seven bushels per acre and in the second it had a lead of eight bushels per acre, a twenty per cent increase over Wisconsin Pedigree.

Over 61 Bushels

On the farm of C. R. Oviatt, in Bay county, the new variety yielded over sixty-one bushels per acre, Michigan Black Barless yielding sixty-three and the Wisconsin Pedigree thirty-nine.

In Monroe county on the farm of Paul C. Clement at Britton, a yield

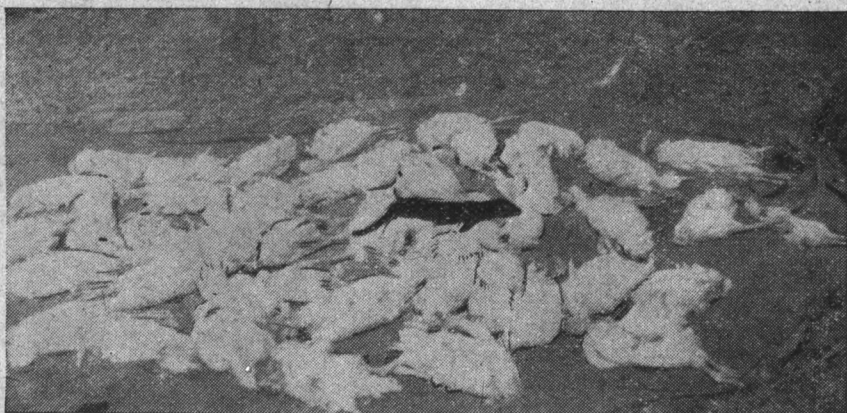


One of the tests carried on to determine the most productive variety of barley for Michigan. Spartan 2-Row is shown at the left and on the right is Wisconsin Pedigree. The Spartan outyielded the Wisconsin Pedigree.

THRU OUR HOME FOLKS' KODAKS



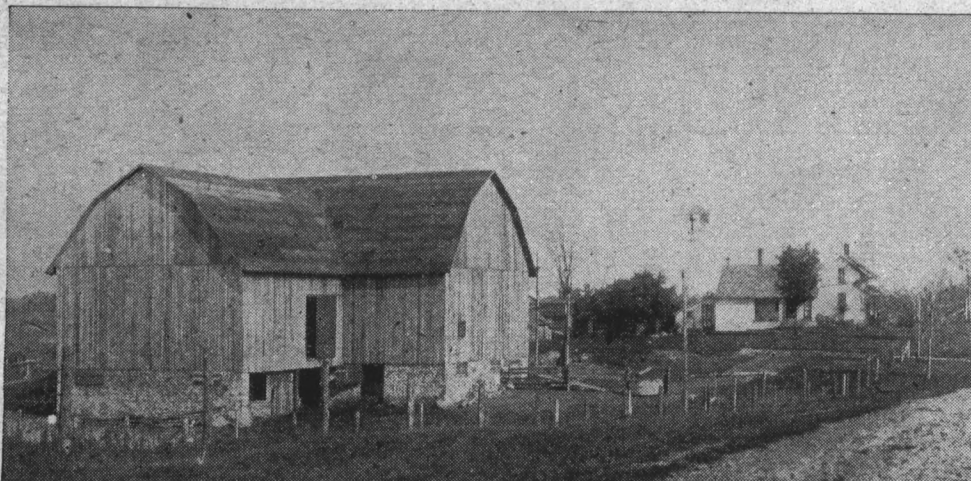
"ONE PLEASURE IN FARMING."—Mrs. J. D. Ross, of Midland county, suggests the title and advises that it is of herself and her flock of geese, ducks and chickens. Poultry raising always has been a fairly pleasant and usually profitable part of the program on general farms in Michigan, but during recent years chicken thieves have done considerable to eliminate much of both pleasure and profit from the work.



ONE KIND OF CHICKEN THIEF.—One chicken thief that most farmers have had more or less experience with is the weasel. The one shown above with some of its victims got into the chicken coop on the farm of V. C. Sherrod, Van Buren county, one night and killed forty-six. The way to keep this thief out of the coop is to see to it that there are no holes by which it can enter. Repair all holes in the walls.



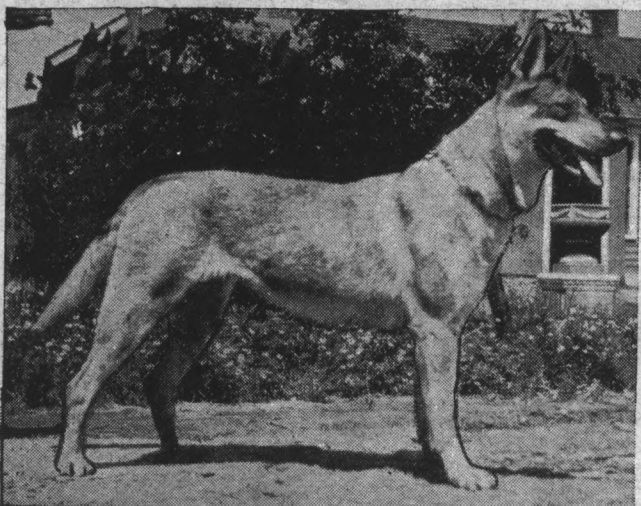
ALWAYS READY TO HELP.—Walter E. Bopp, deputy sheriff of Montcalm county, has done considerable to make his county an unhealthy place for the human variety of two-legged chicken thieves.



FASTEN WINDOWS SHUT AND LOCK THE DOORS.—These buildings are on the farm of J. C. Karcher, of Charlevoix county, and we are indebted to Ray Karcher for the picture. Note the open barn doors and windows. We are sure that all doors and windows of the buildings on the Karcher farm are securely fastened before the family goes to bed at night. But that is not true on every farm in Michigan, we are sorry to say. Thousands of dollars worth of farm property is lost annually because the doors or windows were unlocked when thieves called.



ON WATCH.—Chicken thieves will not get anything on the farm of Mr. and Mrs. E. Smock, Monroe county, as long as their grandson, Eugene Wehling, is on guard. Eugene's parents are Mr. and Mrs. A. Wehling.



A GOOD WATCH DOG IS VALUABLE.—Duchess Von Sandstein keeps watch on the Sting farm, in Huron county, according to Viola Sting. Every farmer should have a well trained watch dog, one that will not make up with or accept anything from strangers.



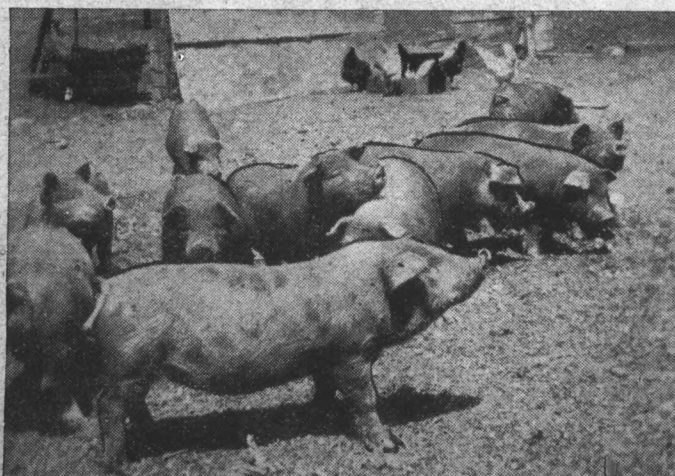
CAUGHT STEALING.—This two-legged chicken thief killed a 2 and a half pound turkey on the Ora Kline farm, Grand Traverse county. But he paid for it with his life.



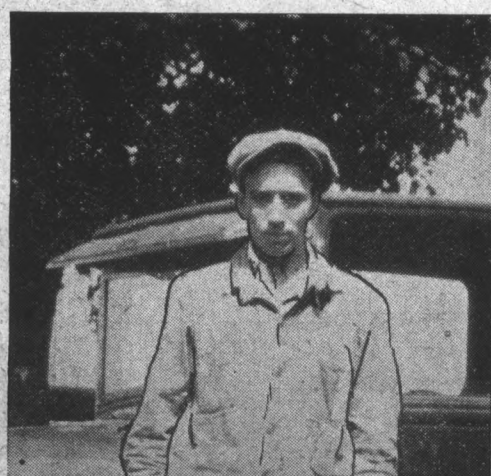
"TWO DANDY HUNTERS."—Says Mrs. Lavina Heminger, of Kent county. "The tiger cat is ten years old and the gray one five. They kill snakes and weasels, as well as mice, rats and gophers. They help to get rid of some of the four-footed foes of farm poultry."



ANOTHER "BAD ACTOR."—Why is this baby hawk so still? Perhaps he is thinking about the chickens he is going to catch when he grows up. From Mrs. D. Phelps, Ingham county.



THESE PIGS DO NOT EAT CHICKENS.—Apparently George H. Funk, of Branch county, does not have to worry about his pigs eating his chickens, because there are several hens shown in the hog lot, but some farmers have considerable trouble. Generally feeding a good mineral mixture to hogs will stop this.



GETS \$50 FOR CHASING THIEVES.—Alton J. Hall, of Eaton county, is always ready to chase chicken thieves. The last one he chased caused him to get one of our \$50 rewards.

WALKING ALONG HIGHWAY

Which side of the highway is a person supposed to walk on according to law?—J. F., Lafayette, Mich.

THERE seems to be no statute governing the use of highways by pedestrians, but instruction is given to school children and signs have been placed on highways instructing pedestrians to walk approaching traffic, or on the left side of the highway, by so doing the automobiles can be avoided because they can be seen approaching.—Lincoln E. Bradt, Assistant Attorney General.

BANKRUPTCY

What do I have to do to make a petition for bankruptcy?—Mrs. A. B. S., Postoria, Mich.

YOU would have to get the necessary form from the clerk of the District Court of your district. Fill it out and file it with the clerk. In the petition, you list all your assets and all your obligations and swear to it before a notary. You would need an attorney.—Legal Editor.

FERTILIZER FOR POTATOES

How many pounds of fertilizer should be drilled per acre on sandy soil for potatoes? Does this bring good results without manure?

ON sandy loam an application of about 600 pounds to the acre of a fertilizer analyzing approximately two per cent nitrogen; 12 per cent phosphoric acid and 6 per cent potash generally gives good results. Fertilizer may be applied broadcast and worked into the soil or if the potatoes are planted with a machine having a fertilizer attachment, fertilizer may be sown in the row.

Fertilizers give the most effective results when used to supplement stable manure and other organic matter in the form of alfalfa or sweet clover sod. Usually, however, the commercial fertilizer will show a material increase in yield even if no stable manure is used.—H. C. Moore, Extension Specialist, M. S. C.

BELONGS TO LAND

The place we are now living on we are renting for one year. Someone told us that if we put barnyard manure on boards we could take it along. Is this true?—Reader.

MANURE produced from feed raised on a farm belongs to the land. A tenant has no right to remove it unless he makes special arrangements with the landlord.

Court decisions bear out this point of view.—F. T. Riddell, Research Assistant in Farm Management, Michigan State College.

LICENSE TO SELL TREES

Will you please inform me if there is a law against my selling shade trees without their being inspected by a State man?—F. B., Beulah, Michigan.

If any ordinary individual wishes to sell and distribute shade trees, he must take out a license as provided for by law, and have the same inspected.

If farmers wish to sell shade trees out of their own woodlots, it will not

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 so requested.)

be necessary for them to have a license, but they must have the trees inspected before they are offered for sale.

Farmers wishing to sell trees other than shade trees, and by that I mean evergreens and shrubs, must also take out a license and have their stock inspected.—E. C. Mandenberg, Bureau of Agricultural Industry.

NEEDS WARRANT

Under the statute laws of Michigan does the sheriff's department have a right to make a raid and arrest without a warrant? Is it lawful for the judge to call a man back and change his decision without an appeal being made through the court?—H. C. G., Grains, Mich.

ASHERIFF would have no right to raid a place without a warrant. The law does not prevent a judge from calling a man back and changing his decision.—Legal Editor.

SHOULD GRANT USE OF SCHOOL

Has the school board of a district the right to forbid any entertainments at the schoolhouse? In the case in question, it seems that the P. T. A. was planning on raising money for an organ and other things in the schoolhouse. To this end the young people were to put on a play and have a box supper, but the board forbade them the use of the schoolhouse.—Inquirer.

SECTION 13, Chapter 5, Part II, of the school code provides that: "The school board of any school district in this State, upon the written application of any responsible organization located in said school dis-

trict, or of a group of at least seven citizens of said school district, shall grant the use of all school grounds and schoolhouses as community or recreation centers for the entertainment and education of the people, including the adults and children of school age, and for the discussion of all topics tending to the development of personal character and of civic welfare. Such occupation, however, shall not seriously infringe upon the original and necessary uses of the properties. The school board in charge of such building shall prescribe such rules and regulations for their occupancy and use as herein provided as will secure a fair, reasonable, and impartial use of the same. The organization or group of citizens applying for the use of properties as specified above shall be responsible for any damage done them over and above the ordinary wear, and shall, if required, pay the actual expense incurred for janitor service, light, and heat."

A Parent-Teachers Association is a responsible organization.—G. N. Otwell, Dept. of Public Instruction.

BACK TAXES

I am behind with the 1925 and the 1926 taxes. The 1927 taxes are due. Can I wait until the first of April to pay these taxes? If I do, what will be the results?—Mr. N. B., Lake Leelanau, Mich.

If your land has not been returned for non-payment of taxes, you could wait until April 1st to pay them, but would have to pay all penalties and interest charges. Go see the county clerk about it.—Legal Editor.

NOT LIABLE PERSONALLY

A friend came to me and wanted me to become a director in a company of five, to sell a patent right. Now he is trying to sell stock in the company. Is the private property of the stockholders holding for the debts of the company? His charter, which is written in Delaware, says they are not, but the business is done here in Michigan. Now what would be the result if the company failed? Could they seize my personal property for the debt?—C. L., Hale, Mich.

THE stockholders of a corporation are not liable personally for the general debts of the company. They are liable personally, however, for all labor claims where the assets of the company are not sufficient to meet them.—Legal Editor.

STAY TILL THE TIME IS UP

I rented a farm last March which the man agreed to furnish everything and give me one half of everything. Put as many cows on the farm as I wanted to milk, two brood sows, 50 ewes. And he has not done it. Now they have come back on the farm and are raising trouble and trying to make me move. What can I do?—L. G. H., Bellevue, Mich.

THEY could not make you move until your time is up, if you have performed your part of the contract. Also you would be entitled to damages for the landlord's failure to furnish stock as agreed.—Legal Editor.

Bulletin Service

(The bulletins listed under this heading are free. Some are issued by the U. S. Department of Agriculture, others by agricultural colleges, and many by our advertisers. We carefully consider the bulletins that come to us from different sources and list those which, in our opinion, are of greatest value to our readers. If you want a copy of one or more just list them on a postal card or in a letter and mail to us with your name and address. They will be sent to you without charges of any kind.)

LIST OF BULLETINS.

- No. 1.—POULTRY RATIONS.
- No. 2.—MODERN WATER SUPPLY.
- No. 3.—SOIL FERTILIZERS.
- No. 4.—SEED CORN CURING.
- No. 5.—GOSPEL OF GOOD FEEDING.
- No. 6.—BEFORE YOU INVEST.
- No. 7.—FARM SANITATION.
- No. 8.—FIRST MORTGAGE BONDS.
- No. 9.—FROM EGG TO MARKET.
- No. 11.—MINERALS AND FEEDING.
- No. 12.—LINSEED OIL MEAL.
- No. 13.—FIGHT THE CORN BORER.
- No. 14.—UNDER-GRADE APPLES.
- No. 15.—RAISING RABBITS.
- No. 16.—TIRE CARE.
- No. 17.—FARMERS' TAX GUIDE.
- No. 18.—BARN AND HOW TO BUILD.
- No. 19.—CONCRETE BUILDINGS.
- No. 20.—MOTHS AND BEETLES.
- No. 21.—FEEDING FOR EGGS.
- No. 22.—CHICK CARE AND FEEDING.
- No. 23.—BETTER GRAINS AND HAY.
- No. 24.—100 FOODS FROM 4 RECIPES.
- No. 25.—FARM LEASE SYSTEMS.
- No. 26.—ORCHARD MANAGEMENT.
- No. 27.—RASPBERRY PLANTATION.
- No. 28.—POULTRY FEEDING SECRETS.
- No. 29.—FLIES IN DWELLINGS.
- No. 30.—MORE MONEY FROM COWS.
- No. 32.—FARMERS' ALMANAC.

Bulletin No. 33.—CULLING THE FARM FLOCK. This bulletin containing information on how to cull out the non-laying and unprofitable birds is filled with illustrations so even the amateur can not go wrong.

Where Our Readers Live

Haven't you a picture of your home or farm buildings that we can print under this heading? Show the other members of The Business Farmer's large family where you live. Kodak pictures are all right if the details show up well. Do not send us the negatives, just a good print.



Home of Mr. and Mrs. James Mansfield, on Elmwood Farm, in Tuscola county.

HERE'S HOW

To Estimate Weight of Hay

By Ray Inman

To Estimate WEIGHT OF HAY—

MEBBY THEM TRAMPS CAN TELL ME WHAT THIS STACK WEIGHS

DRIVE OUT ALL THE LIVESTOCK FIRST!

1. MEASURE DISTANCE OVER STACK
2. MULTIPLY BY WIDTH
3. MULTIPLY BY LENGTH

DID SHE COME OVER ALECK?

ONE WAY OF MEASURING DISTANCE OVER A STACK

4. TAKE ONE-FOURTH OF THIS SUM FOR LOW OR NARROW STACK; ONE THIRD FOR TALL, ROUNDED STACK
5. IF STACK IS NEWLY BUILT, DIVIDE BY 580; IF TWO MONTHS OLD OR MORE, DIVIDE BY 512
THE ANSWER IS THE NUMBER OF TONS

THAT'S THIRTEEN TIMES AROUND 'ER

NOTE: IN A CASE OF THE KIND DIVIDE NUMBER OF TURNS AROUND STACK BY NUMBER OF FEET TO NEAREST TREE, GRAVE AND START ALL OVER.

IF HAY IS IN MOW—
DIVIDE BY 580 IF JUST PUT IN;
BY 512 IF REASONABLY WELL
SETTLED; AND BY 475 IF MOW
IS DEEP AND HAY WELL TRAMPED.

but IF HAY IS IN COW

C'MON BESSIE—WELL FIGGER THIS OUT IN TIN CANS.

TO MARKET



By catching the thief who took Calvin Rhodes' wheat, Deputy Sheriff Clifford Dalby, of Genesee county, won a \$25 reward offered by The Business Farmer.

GENESEE COUNTY DEPUTY GETS \$25 REWARD

WHO says there is no Santa Claus? Clifford M. Dalby, Genesee county deputy sheriff, who lives near Goodrich, believes there is. During the middle of December he caught a young man who stole some wheat from an M. B. F. subscriber and received one of our \$25 rewards for his trouble.

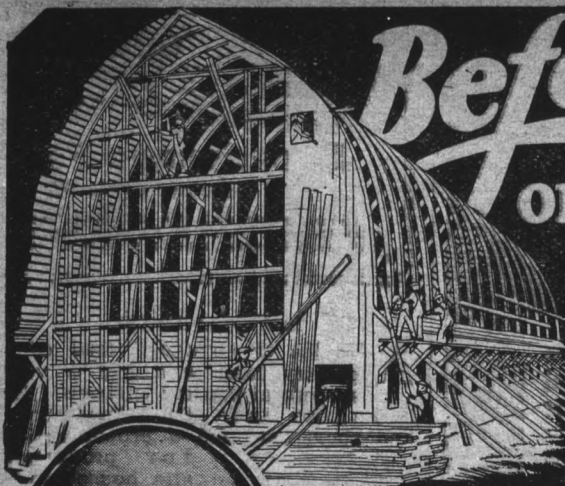
During the night of December 4th ten bushels of wheat in bags, valued at \$26.00, were taken from a barn on the farm of Calvin Rhodes, Goodrich, and Deputy Sheriff Dalby was put on the case. He discovered tracks of an automobile that was used to haul away the grain. Suspecting a certain young man he went to the elevators in his vicinity and learned at Davison that a man had delivered some wheat with a Ford sedan, the tires of which corresponded with those that were on the car that made the tracks in the farm yard. Locating the driver of the sedan he learned that he had been paid two dollars by Jesse Diehl, the young man suspected by Deputy Dalby, to haul ten bags of wheat to the elevator. Young Diehl, who is said to be 22 years old, was placed under arrest and locked in jail for the night. Next day he was taken before justice court where he plead guilty and was bound over to circuit court because he had been in trouble before. The judge in circuit court decided to put him on probation for three years but he must pay Mr. Rhodes \$26 for the wheat taken and a dollar a month probation fee during his probation period. Under our present rules the guilty person must serve a jail or prison sentence.

I am a subscriber to M. B. F. and think it is the best farm paper printed.—I. M. Lilly, Gratiot County.



"SOME" POTATO!

The potato shown on the lap of Mack H. Moody, of Manistee county, weighed four pounds and measured 13 inches around the smallest way and 23 inches the largest. Can anyone produce a picture of a larger one?

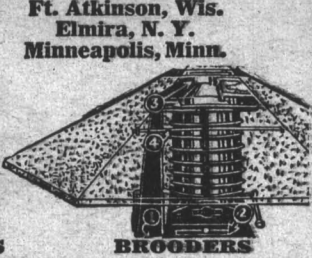
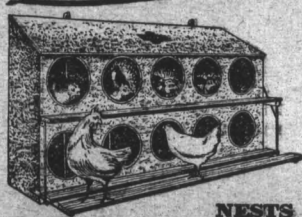
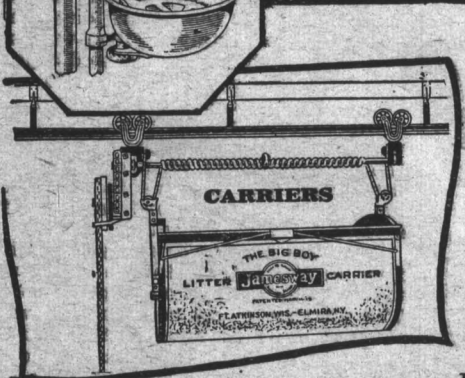
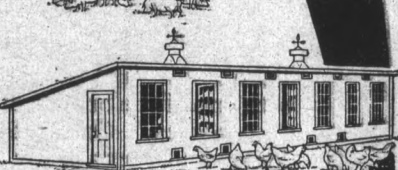


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NEIGHBOR DAVE SAYS—

"They's two kind o' folks in our neighborhood—th' kind that does things for you, an' th' kind does things to you. Any other kind don't count."

An' they's just two kind o' fence—th' kind that saves your money an' th' kind wastes it. Th' costliest fence is th' one that don't last."

LEADCLAD fence lasts several times as long as th' ordinary kind because its got a coatin' seven times as heavy an' four times as thick as ordinary fence. An' that thick, heavy coat is LEAD. If you drop me a line, I'll tell you how you can get a LEADCLAD fence that'll save you money."

P.S.—Better write while you're in th' notion.

Write to at th'



NEIGHBOR DAVE,
LEADCLAD WIRE CO.,
MOUNDSVILLE, W. VA.

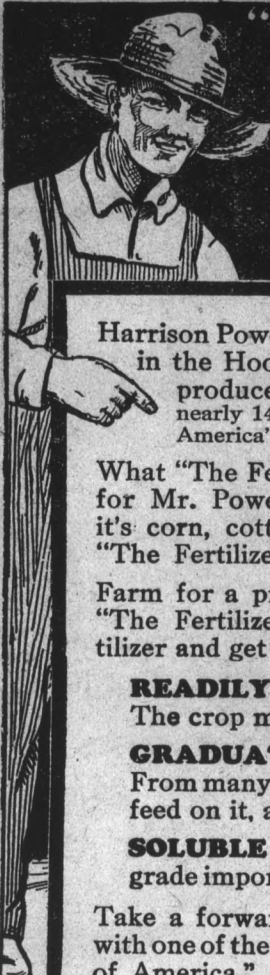


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The Business Farmer, Mt. Clemens, Mich.



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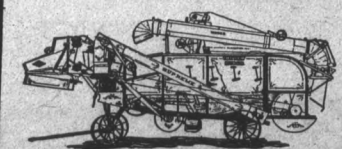
100 Lbs. Net—Frozen large round Herring, \$6.00; dressed Herring, \$6.50; round Pickrel, \$7.50; headless Pickrel, \$9.50; yellow Pike, \$12.50; Salmon \$12.50. Bonnet with order. Package charge 30c per 100 lbs. We charge 1/2c per lb. more in less than 100-lb. lots. Send for price list of all varieties fish. **CONSUMERS FISH CO., GREEN BAY, WIS.**

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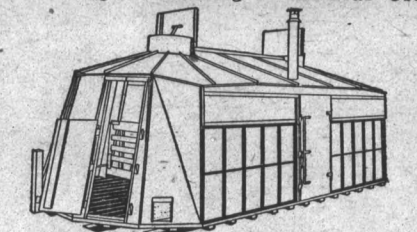
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Broadscope Farm News and Views

Edited by L. W. MEEKS, Hillsdale County

(Many people write for Mr. Meeks' advice on different problems and he is always glad to give them the benefit of his wide experience without charge. Address him care of M. B. F. and you will receive a personal reply by early mail if you are a paid-up subscriber.)

It Proves To Be

A YEAR or so ago I read of a poultry man who had a very successful poultry business. He had a good strain of excellent layers and they were fed a proper ration for production and housed in a modern type of house. He believed in proper ventilation and had experimented with that problem until he thought he had the best system yet devised. However, a ventilation system that is ideal in moderate weather is not ideal in real



L. W. Meeks

severe cold weather and seldom can one find a hen house that is sufficiently warm on zero days and at the same time well ventilated. This man found that a few days of severe cold caused a lower egg production which was not easily regained, and this setback interfered seriously with the profit end of the enterprise. There seemed to be only one solution to the problem and that was to supply heat for the severe days and nights. Accordingly a stove was installed and when there seemed a possibility that the temperature in the house would drop more than six or eight degrees below freezing, a fire was started and regulated to keep the thermometers at about twenty-five. The idea was not to keep the house really warm but to keep it from getting really cold.

We built a brick chimney from the floor in the potato storage cellar up through the laying house to the roof. The purpose of its construction was to enable us to have a fire in the cellar to dry up the excessive moisture that sometimes gathers. We do not have to fight frost in it. When the chimney was built we put in flues so we could have a heater in the hen house, and this is to inform you we have a good steady fire in it these zero days and nights and when it is ten below zero outside it is only about seven below freezing inside. This seems to be as warm as it should be for all around success. This cold has continued now for several days and the egg production has not lessened in the least, and

NEEDS M. B. F.

I CAN'T possibly keep house without M. B. F. I believe I could get along without my radio better than I could my M. B. F.—Mable E. Jones, Jackson County.

still the house is well ventilated. The cost for fuel is about fifty cents per day and it certainly is fifty cents well invested.

The time has come when we farmers must use every means available to keep the ledger correctly balanced and it seemed folly to stand idly by and see some little interruption like a severe cold spell change our profit to loss if it can be avoided. I am free to admit there are many of these interruptions which are beyond our control, but many of them may be overcome. For instance, I once knew a dairy man who was telling how much less milk his cows produced because of the cold weather. He has a good barn and there is no reason why a drop in temperature should have lessened the production very much if good judgment on his part had been used to keep the low temperature from interfering with the cows but aside from being a liberal feeder he did not think there was anything else he could do only to keep the doors shut. He did not realize that a good barn and liberal feed were not the only essential requirements for milk production. Zero

days found his cows turned out into icy blasts to find their way to a stock tank full of water and ice, mostly ice. An axe was used every day to chop a hole or two where the cows could reach the water. Did his cows drink such cold water? Sure they did, but only enough to partly slake their thirst, not one tenth what they required to keep up an impaired milk flow. Here was a little interruption entirely within his control. A protected stock tank and a heater would cost perhaps twenty dollars, and while he did not know it he was paying for these every few days in lessened milk production caused by "cold weather." It is not impossible for the majority of dairymen to provide water in the barn for the cows. Individual cups where a cow may drink whenever she is inclined are a very fine arrangement but these are not necessary in order to let them have water in the barn.

Not far from here is a large dairy farm and a large tank is found near the feed alley. This tank never freezes but is kept just as cold as possible and not really freeze. On

ERROR

THERE was an error in the formula printed for our laying mash in the Jan. 7th issue. The 100 pounds of Middlings were omitted, which throws the mash out of balance. It is: 250 lbs. yellow corn meal; 100 lbs. bran; 100 lbs. middlings; 100 lbs. fine ground heavy oats; 100 lbs. meat scraps (50%); 6 lbs. salt; 12 lbs. ground limestone; 10 lbs. charcoal; and 15 lbs. bone meal.—L. W. Meeks.

cold or stormy days a pail is used to give the cows their drink, it does not take long to water fifteen or twenty cows. Two pails are used and while one is being emptied the other is being filled. This man contends that exercise is required to keep cows in good health but cows do not exercise when turned out in cold freezing winds. They will find the leeward side of the barn and huddle together. Not first class exercise!

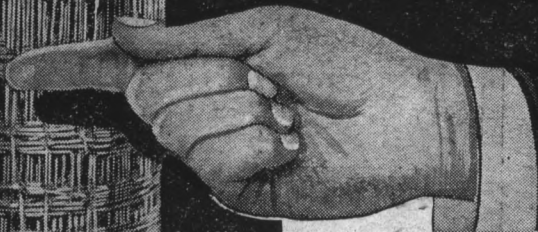
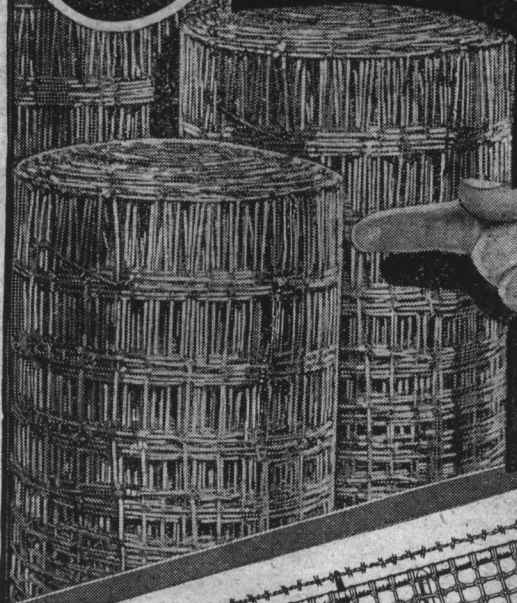
Taxes

This is the time of the year when if one man is alone he thinks of taxes and where two or more men are together they talk about taxes. Seems there is always someone to blame for high taxes! If it isn't the Governor it's the road commissioners or if it isn't them it's the supervisors! Not many seem to think it's the dear people themselves, but I am inclined to believe that a certain amount of the blame is to be placed on them. And furthermore, they cannot be blamed for making high taxes! Now this seems a strange contention but it is an altogether reasonable one.

Twenty years ago a man with a family wanted them to live and be like other people. Most families in those days enjoyed their homes and their clothes, their horse and buggy or horses and surrey. The cost of upkeep on the home, such as fuel, furniture, etc., was considered a necessary expense. The cost of clothes, maintaining horses, carriages, etc., was a regular part of necessary expense. As we look back at those days we think the entire expense was not very much! Today we could live very nearly as cheap as we did then. But we don't want to live cheap. We don't want to wear cotton stockings. We don't want to ride in buggies. We don't want a weekly paper at one dollar per year—we want a daily at four dollars per year. We don't want to heat just one room—we want to heat the entire house. Result, it costs us more to live and we are to blame for the most of this added expense, but can we be blamed for wanting to live like we do now?

It seems just the same to me with the expense of running our government. (Continued on page 26)

Costs Less Than 2¢



My Prices are Lower!

I want to send every man who reads this paper one of my New Cut Price Catalogs. I want you to have this book so you can see with your own eyes how much money you can save on over 150 styles of Fencing, Gates, Furnaces, Barb Wire, Steel Posts, Metal and Roll Roofing, Shingles and Paint. My DIRECT-FROM-FACTORY plan of dealing cuts cost and saves buyers a lot of money. As you look through the pages of my big Cut Price Catalog and note the high quality of everything made in my factories and see the low money-saving prices, you'll be glad you sent for it.

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It makes no difference where you live, you can take advantage of this money saving opportunity of buying from Brown's Factories; orders are shipped within 24 hours from my three big factories at Cleveland, Ohio, Adrian, Mich., Memphis, Tenn.; also from warehouses at Kansas City, Mo., and Davenport, Iowa, so regardless of where you live you can get goods from Brown in a very few hours.

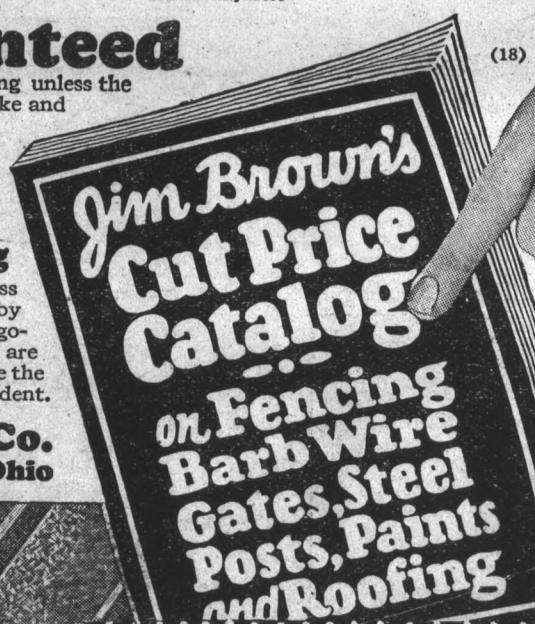
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Now just a word about QUALITY. Low prices don't mean a thing unless the quality is right; that's the point I want to emphasize; I believe I make and furnish my customers with the BEST QUALITY Fence, Gates, Steel Posts, Furnaces, Barb Wire, Roofing and Paint that it is possible to produce. That's why everything you buy from my factories carries my own personal guarantee—a guarantee that insures you quality and satisfaction.

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Just fill out the coupon with your name and address and I'll send you my money-saving Cut Price Catalog by return mail. If you are going to build fences—if you are going to put on new roofs or repair your old ones—if you are going to paint any of your buildings, get this book and see the nice bunch of money I can save you.—Jim Brown, President.

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NAME

P. O.

STATE R. F. D.



Mr. de Jong's cauliflowers win first prize at Syracuse—

FROM way out in Red River Valley, six miles north of Winnipeg, came cauliflowers from Mr. Klaas de Jong, to win a first prize at the Convention of the Vegetable Growers' Assn. of America, held at Syracuse, N. Y.

The picture above shows the quality of the cauliflowers. Here's the story of how they were raised:

Mr. de Jong used Henderson's "Snowball" and when the plants were 4 inches high he side-dressed with 200 lbs. of Sulphate of Ammonia per acre in one application.

Mr. de Jong's crop averaged 9 to 10 tons per acre. The Sulphate of Ammonia he used cost

less than \$20 and his crops sold for \$1,056.

Try Arcadian Sulphate of Ammonia on your own crops. It's fine and dry, and easy to apply. No pounding; no screening. 25% per cent ammonia, 20% per cent nitrogen guaranteed.

Note: Photo above shows cauliflowers which won first prize in the Cauliflower Contest, Annual Convention of the Vegetable Growers' Assn. of America. Mr. Klaas de Jong, E. Kildonan, Manitoba, grower.

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Fruit and Orchard

Edited by HERBERT NATZIGER, Berrien County

(Mr. Natziger will be pleased to answer your questions regarding the fruit and orchard. There is no charge for this service if your subscription is paid in advance and you will receive a personal reply by mail.)

GRAPES AND STRAWBERRIES

Would like to know how and when to plant strawberries and grapes, also how to care for them later?—E. R., Stanwood, Mich.

PLANT your grapes early in the spring in ground that has been plowed and harrowed. Plant them about 10 feet by 10 feet. If the plants have long roots trim the

roots back about one third. Trim the top to one strong cane and then shorten that one to about two buds. Always plow your grapes shallow, early in the spring. Then keep them well cultivated until about the first of August, no later.

At the last cultivation sow a cover crop. Do not plow your grapes in the fall. Trim the grapes any time during the winter or early spring. The average mature grape vine should be trimmed back to four arms using canes of the previous year's growth which are 1/4 inch in diameter. Cut each arm back to ten buds making a total of 40 buds for the whole plant. To an amateur this seems like a terrible trimming but it is necessary to get good crops and at the same time keep the vine in good condition.

Plant your strawberries early in the spring on fertile ground which has been plowed and well harrowed. An average distance for the common varieties would be, rows four feet apart with plants two feet apart in the rows. Keep the young plantation thoroughly hoed and cultivated until late fall. About September 1st it would pay to sprinkle sulphate of ammonia lightly between the rows, being careful not to get any on the leaves.

FILLERS IN SPY ORCHARD

Would it be advisable to use dwarf pear trees as fillers in a Northern Spy orchard, where trees are set 40 feet apart. The orchard is on a sand ridge. How far apart would you plant grapes?—C. K., Saginaw County.

OUR advice would be to use standard apple trees as fillers. Some good variety which has the habit of coming to bearing early would be advisable. In your latitude the Wagener or the Wealthy might do very well.

MCINTOSH APPLE

I am enclosing two apples of like variety. Could you please tell me the name of this variety, its commercial possibilities and any other information which you can give. I will appreciate any information which you are able to give and thank you for your efforts.—F. G., Petosky, Michigan.

WE always make it a rule never to attempt the identification of apple varieties, because it is mostly guesswork to anyone but a skilled pomologist who has been trained to this work. In this case,

however, we will venture to waive the rules because the apples which you sent in are unmistakably McIntosh. The incomparable McIntosh flavor, color and aroma are all there in full force. We have McIntosh on our own place, but with us it is a late fall apple because we are located farther south. As for the commercial possibilities of this variety we believe them to be very good, especially for your part of the State. The tree is very hardy and the fruit is rapidly growing in favor in our middle western markets.

TREES FAIL TO BEAR

I have four apple trees and one pear tree. These trees are about ten years old. They blossom every spring but do not bear any fruit. Can you tell me what to do for them?—F. V., Cadillac, Mich.

THE failure of your trees to bear may be due to a number of causes. They may be all of one self-sterile variety and need pollen from other varieties to fertilize the blossoms.

Or the soil may be lacking in available nitrogen. This can be remedied by applying nitrate of soda or sulphate of ammonia to the soil early in the spring.

Or fungus or insect pests may prevent them from bearing a crop. This can be remedied only by spraying.

CANE BORERS

Please tell me what to do for my red raspberry plants. They seem to have a maggot or small white worm in the stalks near the joints and break very easy.—A. D., Bellevue,

TRREATMENT for the cane borers should begin early in the summer, at which time the young shoots should be watched for dead tips. Cut the dead tips a short distance below the girdle. Carry a basket in which to collect the dead tips and carry them out of the patch and burn them. Immediately after the harvest cut out the old canes, get them all out of the patch and burn. It might also be a good idea to watch for dead canes during the summer which should be cut out and burned.

PEDIGREED PLANTS

DR. FREDERIC T. BIOLETTI of the University of California is not a believer in "pedigreed" grape plants as the term is usually understood. The grape is propagated by cuttings, and, consequently all the Concord grape plants in existence constitute a single individual. It naturally follows, says Dr. Bioletti, that the bearing quality of a vine is not influenced by the bearing quality of the vine from which it was taken. Outstanding bearing quality in a vine is caused by outward influences and environment.

A bud sport (such as the Red Gravenstein apple) however, is an entirely different matter. A bud sport, as we understand it, is a rare occurrence, and we cannot be certain that we have found one until progeny plants from the sporting branch have grown to maturity and have persistently exhibited all of the unusual characteristics of the original sport.



NICE LOOKING STRAWBERRY PATCH

"A picture of our strawberry patch," writes Ellerbeck Brothers, of Ottawa county.

What the Neighbors Say

(We are always pleased to receive letters from our subscribers and gladly publish those on subjects of general interest. If you agree or do not agree with what is written and published in this department write your views and send them in. The editor is sole judge as to whether letters are suitable for publication or not.)

PROTECTION AGAINST THEFT

DEAR EDITOR: I see by reading your magazine that you are deeply interested in the prohibition of chicken stealing, also you are taking a little interest in the suppression of all other crimes. I have a plan that I worked on for the last 15 years and nine out of every ten that I have had a chance to talk with about it thinks it would work all right. Now I will give you my plan and ask that you place it before the public for their approval or rejection and give me their reason so I may have a chance to explain as I wish to infringe on the rights of no one. My plan follows:

First register every man, woman, and child, placing them in three or more separate classes so as to know who they are, where they are and what they are doing. Second, withdraw all of our present money and issue simple checks of credit that can be taken to the home bank where one is registered and have it cancelled and get a check of deposit. From which he can check out and buy anything money can buy. And as every check must be returned to the bank from which it is issued there can be no forgeries without direct detection, which the bank looks after.

Every banker and every produce buyer is a government agent with good salary or commission. By so doing the government becomes the sole buyer of all labor or products of labor and pays for all services rendered or goods received for public use with all forms of taxation and all accumulation of interest on public debts.

It is a plan to protect the poor and defend the rich against burglary and theft. It gives employment to the strong and protection to the weak. Anyone finding any fault with this plan will do me a favor by sending me his or her objections.—Samuel Smith, Montcalm County.

RIGHT ABOUT M. S. C.

DEAR EDITOR: I believe your editorial about M. S. C. is the exact truth. It is no longer a farmer's school nor are some of the county agents sent out from it doing much to assist the farmer.—Eva Henderson Davey.

AGAINST McNARY-HAUGEN BILL

DEAR EDITOR: Enclosed find "The Same for All" which I clipped from a newspaper. Why doesn't THE BUSINESS FARMER print something like that instead of pretending about the awful condition of the farmer. Now there are more autos costing \$1,000 on the street that belong to farmers than there used to be top buggies.—A Subscriber, Bannister, Mich.

"THE SAME FOR ALL."

"A certain element of agriculturists represented by the radical group in congress insist on reviving the McNary-Haugen plan because, as they put it, the farmers should have the same 'protection' inside the tariff as other business. They feel there is a discrimination and that opportunities should be leveled up. What they are asking, however, is not equality. It is a privilege other business does not possess."

"To illustrate this point President Robert S. Brookings of the Institute of Economics recently cited a sad incident out of his own experience: "Some years ago, in association with a group of the best informed and most prosperous lumber manufacturers of the north-west, I invested in Pacific coast timber lands. Through a process of overproduction we were compelled, by the large loss caused by the excess of production over market price, to shut down our plant, write off our machinery and write off a loss of several million dollars. It would be equally logical for us to have demanded that the government take over our produce and fix a reasonable return on our investment even after the government should have charged us with any loss sustained in the dumping of our surplus upon foreign markets."

"Another illustration is the oil industry which was unable to control production during the past year and saw prices fall below the cost of up-to-date production so

that many producers were squeezed out of business.

"Overproduction, the bane of the farmer, is the bane of many other great industries as well. The group backing the McNary-Haugen bill desires to offer an actual reward for unlimited production which in two or more years would result in an excessive output destroying all the early price benefits of the plan.

"There is no permanent hope in the McNary-Haugen idea. It is not a means of equalizing farmer and manufacturing conditions but a bribe offered by mistaken leaders for votes."

AN OLD VIOLIN

DEAR EDITOR: I read in your paper of December 3, 1927, an article in regard to old relics. I have an old violin that my grandfather got from a circus man in Vermont about the year of 1795. Shortly after that he moved to New York State and in 1812 was a soldier in that war. He took his old violin with him and played in the band, using the violin in place of a fife.

After the war, or in 1837, he moved to Michigan and in 1839 to

this section. He brought the old violin with him, and he surely made the woods ring at all public gatherings—dances, corn huskings, barn raisings, logging bees, and such. The old man died in 1869, when I was seven years old. I well remember how they shot a big cannon off over his grave after the coffin had been lowered.

A few days before his death, I was in his room and he said, "Sonny, hand me the old fiddle." I did so, and he drew the bow across the strings a few times and handed it back to me saying, "You are the youngest Allen of our race. Take this old fiddle, keep it as long as you live, and then give it to the youngest Allen of our race."

An old English professor of music told me that the man who made the violin was a German and died more than 400 years ago.—Fred F. Allen, Van Buren County.

GAME AND FISH

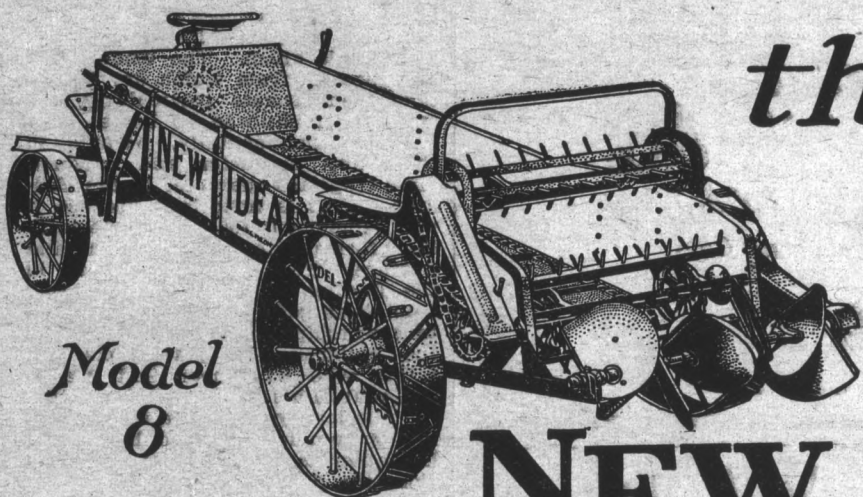
DEAR EDITOR: What about the game and fish law? The State is spending thousands of dollars every year to protect game and fish. Who are they doing it for? No other than the big fellows who can afford to spend the whole season on both hunting and fishing. Us poor suckers that can go a few times a season can just go and look at the camp fire ashes of those who have

taken out everything they could hook and shoot and they do not stay away from the best there is to be had. The same with trapping. There's always some one taking a chance to trap before the season. Thousands of mink and rat were sold before season was open as I understand.

The only time I saw a game warden was the day before season opened for rats and mink. Then they watched within sight of a town, not a quarter of a mile, trying to catch some poor sucker who has been waiting for the season to open who they thought might set a few traps the night before. That's easy money. Why don't these men go out in the brush and get some of those greedy hogs and give everyone a show? The same with spearing through the ice. Why don't they stop it throughout the state or give equal privilege? What are we paying taxes for? Come on folks, wake up and start something.—A Subscriber, Reed City, Michigan.

We like M. B. F. the best of any papers we take and would sure miss it if anything should happen that we could not get it but we won't be without it as long as there is such a paper. "The Song of the Lazy Farmer" is sure good.—Mrs. Lee Stephens, Mecosta County.

We are constant readers of the M. B. F., and have been for years. We enjoy it very much.—L. H. W., St. Johns, Mich.



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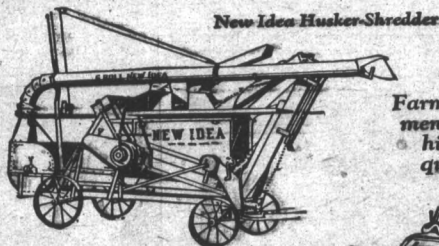
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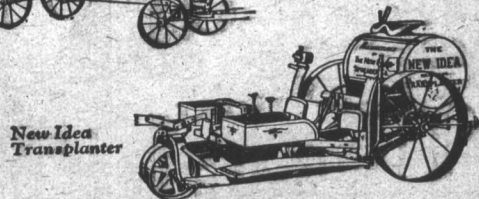


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All who suffer from asthma and bronchial cough will be glad to learn how Mrs. W. G. Pierson, Route 1, Colby, Kas., conquered her trouble. She writes: "For 16 years I had asthma in severe form. I couldn't sleep, and rarely tried to go to bed before 1:30 a. m. I kept getting weaker and had a terrible cough. I was in Akron, Col., when I started taking Nacor in February, 1925. In March I felt so much better I returned to Missouri. One night in Missouri used to make me choke terribly, but I don't have a sign of asthma now, not even in rainy weather. I sleep all night, have gained 10 pounds and feel strong and well."

Hundreds of other sufferers from asthma, bronchitis and chronic coughs have reported their recovery, after years of affliction. Their letters and a booklet full of valuable information about these stubborn diseases, will be sent free by Nacor Medicine Co., 590 State Life Bldg., Indianapolis, Ind. No matter how serious your case seems, write for this free booklet today. It may give your life a new meaning.—(Adv.)

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A NON-SECTARIAN SERMON BY

Rev. David E. Warner

(If there is any question regarding religious matters you would like answered write to Rev. Warner and he will be pleased to serve you without charge. A personal reply will be sent to you if you are a paid-up subscriber.)

TEXT: "Train up a child in the way he should go, and when he is old he will not depart from it." Proverbs 22:6.

TOO many of us are too well educated." Coming from a college leader, this assertion startles. We rub our eyes open to see where we are. We have always been hearing that not enough of us are well-educated. But the speaker pointed out that much of the popular book-learning of the day was robbing the youth of the love of work and worth.

He's a smart young man alright and popular with the high-school crowd; but he is not decent company for your daughter. They are legion. But let us have a little compassion. There is no high-pressure emphasis upon the essential of character-content in our educational system. And in essence, this is a religious problem. But according to our American system of the separation of church and state, there is no place for religion in the school curriculum. Therefore, the responsibility must be carried by the home and church, to teach religion in these more intimate centers. Religion, after all, is such a domestic grace. The whole book of Proverbs, from which our text is taken, emphasizes particularly, the training of children at home.

Now, fundamentally, parents in their own character and conduct, must translate character to the children. This is important because it will supplement for many defects in their formal attempts at training and nurture. That is a great word in the Decalog which warns us away from false gods because such iniquitous worship would be visited upon the children for generations. A father who lives near God, makes God real to his children. John Paton, the missionary, tells of a small room in his humble childhood home that his father used to frequent often and close the door. He tells of the pathetic pleadings of his father's voice and that the children would slip past the door on tiptoe. They came to understand whence came the reality of that father's good life. It was God-sourced; God-inbreathed. A Mother who holds particular converse with Jesus as a friend will confer lasting honor upon her children. But all pious talking or praying will be impressionless, even spurned with disgust by the grown-up child, unless there be back of these a life; a life of reality; a hallowed friendship that actually exists with the God of the unseen. This is the home atmosphere that God intends during the plastic years. Character is atmospheric. And this principle implies that the child can be made religious or non-religious before the years of conscious learning. Some of us have lived to unlearn some things that we had learned; but that which has become a part of us in our early years, which has become elemental in our moral make-up, challenges the world of after years and the power of all after learning, to blot out. And some child-psychologists are now telling us that character is shaped during the first three years.

Now, what are the loves of your home life at this moment? The writer will always be a ruralist under the skin, if not actually; will always see something indescribably beautiful about the country, because he absorbed this like in his early years. He would like to be a boy again squeezing the mud up through his toes in the old barnyard stream. Now, the child begins to love religion in this absorbing way. In education, absorption is vital as a beginning process. And we absorb from the people and things about us. If the parents, whom the child loves, are held by the beauty and attraction of religion, that same religion, as a heart possession, will capture the child before it comes to the school age or the time of learning. There is something subtle and different about that religion which you caught

in childhood. It sticks. It cannot wholly be argued out of you. But the opposite is also true; appallingly true. If the parents are Mammon-lovers, so will be the children. Money will be the principal thing with the young folks, and they will look at you in blank amazement if you try to argue this aim out of them. Hardly can it be done. Millions are on their knees now to this false god in great ardor of emotion. This devil stole in upon them in the beginning years when they could not resist him, and the parents would not. The point is that if religion's holy ways prevail in the home, though the children may be temporarily seduced at later times, they will be restless and uneasy until they return to their first love.

But one day the child wakes up, the understanding begins to dawn, he becomes critical, and asks many questions. Then is when definite instruction must begin. "Hear, my son, the instruction of a father," should be a daily experience in every home. In worship and in education, the home can be made a literal Holy of Holies to the childheart. Recently, a mother was the main speaker at the ordination of her son in to the Gospel ministry. She said, "That (speaking of his birth) was our day of dedication. Our dreams are being fulfilled now. * * * It does not seem long since that morning when God placed you in my arms. I had no feeling then that you left His arms when you came to mine." The Living God yet has His Hannahs! And such mothers fire up the furnace of religion seven days in a week. Tragical that we have so many critical, bungling week-day parents! In these six days the spark of religion burns so feebly that the children get cold and huddle up by the fires of pagan gods. Sunday pretensions are bare and ineffective, and therefore Christianity is being weakened in the very place where it should be fullest of vigor and strength; the home. Unless we can regain this home paradise, the health of the next generation is jeopardized.

The home-school is most important in fundamental education. All other schools are important, yet they fail too often in corroboration of the basic elements of obedience, of work, of purity, and of unselfishness; all of which are first things in Christian character. But before they enter the public school, many children are started downward through the soft, easy ways of the modern home. Jazz, automobiles, money and luxury have begun their disintegrating work. Today we are getting familiar with the type of girl who wants to get married but refuses her husband babies, home life, and the joys of a help-mate; and the type of boy dulling his moral instincts on the bare arms and painted faces of vain and extravagant females. More often, such as these are the flotsam products of unspiritual homes. "The fathers have eaten sour grapes and the children's teeth are set on edge." When the father becomes a priest and the home a sanctuary, we shall have children who are well established in the safe and simple moralities of Christ, and who will not depart from them when they are old.

We like the M. B. F. better every time it comes and the boys find it very useful in their high school work in animal husbandry and also in their agriculture and horticulture classes.—Mrs. Nelson Simkins, Tuscola County.

I have been a subscriber to THE BUSINESS FARMER for a number of years and think it is the best farm paper of today.—Harrison Wells, Tuscola County.

Please pardon my long delay in renewing my subscription to THE BUSINESS FARMER as money seems very scarce at the present time. I do not want to miss any of the issues of the paper as I like it very much, and only wish it would come out every week.—Seymore Lewis, Emmett County.

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JOHN N. ANHUT
President

Chatting with the Agricultural Teacher

Edited by V. O. Braun

(Mr. Braun is a farmer, a teacher of agriculture and a writer. He owns and operates a large farm in Branch county known as Spring Water Farm. He is a successful teacher of agriculture in a high school in Shawansee county. Also he writes for many leading farm magazines of this county. He is well prepared to help farmers with various problems and our folks are welcome to write him at any time. Just address him in care of M. B. F. and you will receive a personal reply by early mail.)

Alfalfa

YESTERDAY one of my farmer friends came into the laboratory and wanted to secure some information on alfalfa. He wished to plant a field to alfalfa in the spring



V. O. Braun

and wanted to know if he would be safe in seeding it with barley. He mentioned that he could sow the alfalfa alone but needed some barley next summer due to the shortage of his corn crop this fall. I imagine there are a large number of farmers who have this same problem. I advised him to sow the alfalfa seed with the barley as one is quite sure to secure a stand in this manner, and he will also have an extra crop to feed. We have a fine field of alfalfa on Spring Water Farm and it was sown in this same manner. I am going to sow another field in the spring and I am going to sow it with barley again in the same manner. Alfalfa is an excellent crop for the farm, and Michigan farmers can be proud of the fact that this State has more alfalfa than any other State east of the Mississippi river. It is not hard to raise either if the proper methods are used. The soil however must contain sufficient lime, good seed must be secured and the seed should be inoculated with a good alfalfa culture. I gave my friend two bulletins which explain the growing of alfalfa in detail. They are extension bulletins No. 23 and No. 35, and can be secured by writing R. S. Shaw, Director, Agricultural Experimental Station, East Lansing, Michigan.

Get Free Bulletins

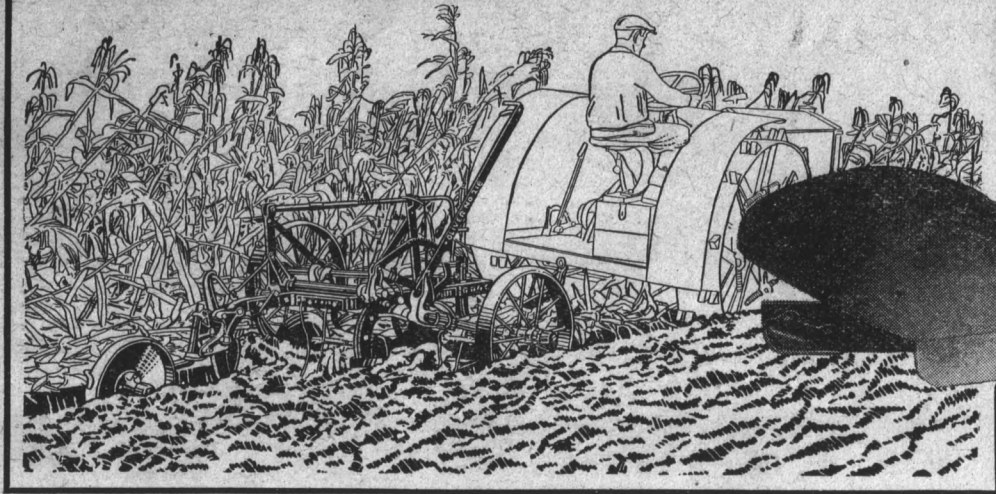
Considerable information can be secured from the free bulletins distributed by our state experiment station and by the United States Department of Agriculture. These bulletins are the last word on methods and data covering every phase of agricultural work. Every farmer should have a few of these free bulletins which concern his certain type of farming. A good idea would be to write for a list of these available bulletins. For a list of the United States government bulletins address Office of Information, U. S. Department of Agriculture, Washington, D. C.

Put One Over on Dad

One of my students took some samples of seed home with him a few days ago to show to his father. He came into the laboratory the next morning and said, "I sure put one over on dad, Mr. Braun. He didn't know the difference between White Sweet Clover and Yellow Sweet Clover, and he couldn't tell either of them from alfalfa seed." His father did not know buckhorn seed either and yet this man is a quite prosperous farmer. Here is a tip to the farmers of Michigan: learn to know your seeds. When you buy seeds and do not secure what you pay for you not only waste your money but you waste the crop as well. And while you are learning to identify seeds also keep in mind the significance of the Gooding-Kelcham Law regarding seed staining: this law states that all imported clover and alfalfa seed must be stained. Unadapted seed for general agricultural use in United States must be stained 10 per cent red. Other imported seed must be colored one per cent green with the exception of Canadian seed which

(Continued on Page 26)

NOW-A GANG PLOW



with OLIVER BIG BASES

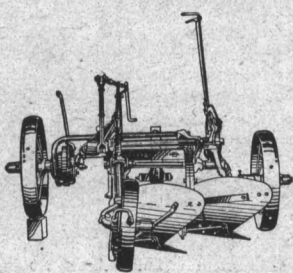
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"The Farm Paper of Service"

FARMERS' WEEK

HOW time does fly! Here it is less than two weeks before another Farmers' Week at the Michigan State College. Of course you are planning to attend. You really can not afford to stay away if you are interested in the better things of farm life. There will be plenty of good talks about your business and many on other subjects.

Dad need not think this is a chance for him to leave the rest of the folks at home—not by a jugful—because there will be something doing to interest everybody. Even a day nursery is to be provided, so Mother can "park" the small children and give her whole attention to what is going on. The older boys and girls will find much to take up their attention.

Everybody who attends Farmers' Week is due to have a pleasant and profitable time. The dates are January 30th to February 3rd. If you have not noted this on your calendar do so now, and plan on being there.

See you Farmers' Week, folks!

WILL YOU HELP US?

WHEN our subscribers need help they come to us and when we need help we appeal to them. We have tried not to fail them and they certainly are always willing to do all they can to help us. Now we are making an appeal to our folks to help us so that we can help them.

In our January 7th issue we published an article under the heading "The Farm Thief Must Go" which told the results of our study and investigation of the problem in Michigan. Of the recommendations we made one was that all poultry be marked with an identifying mark that is registered with poultry dealers and sheriffs. We have made arrangements with a Chicago manufacturer to supply us with a marker which he will mail to our subscribers, with enough ink to mark 100 chickens, for \$1.50. This is his wholesale price to us and we are letting our readers have them at that price because we are not interested in making one penny out of our campaign. Further, we are going to supply a list of the names and addresses of our folks who purchase these markers—each with a different mark—to poultry dealers and sheriffs in Michigan. We know that thieves do not care to steal anything that has an identification mark on it because of the hard time they will have marketing it.

In order to make this part of our campaign a real success we must have a complete list of the poultry dealers in Michigan, and here is where our subscribers can be of great assistance. Michigan has no law requiring that all poultry dealers be licensed to transact business, which means there is no complete, official list of the dealers operating in this State. If we had no way of getting this list we would feel very much disappointed but we have a way. This way is through our subscribers.

Every one of you know the poultry dealers in your nearest towns and we ask that you send in the names and addresses of these men or companies so that we can have a complete record of them. We have a fairly complete list of the dealers but we want to make it as complete as it is possible to be, and to do so we must have YOUR cooperation. Remember that we are doing this for your protection and the protection of every farmer in the State of Michigan.

We have said that the farm thief must go, and he will go if you work shoulder to shoulder with us.

When you send in your list of poultry dealers it would be a good time to order your poultry marker, if you haven't already done so. There is an order blank elsewhere in this issue.

MOST FAVORED NATION TREATMENT

WHEN Uncle Sam negotiates a commercial treaty with a foreign country he always insists on "most favored nation treatment." This means that American goods are to have just as favorable tariff treatments and other privileges as those accorded to goods from any other country.

Unfair freight rates within the U. S. can restrict the trade of certain districts just as much as unfavorable tariffs can restrict international trade.

Michigan agriculture is now pleading for most favored nation treatment in national trade.

Take potatoes. Wisconsin and Minnesota potato growers can deliver potatoes to certain points in Ohio cheaper than Michigan growers. Western New York can deliver apples at Duluth on practically the same basis as Michigan growers. California hauls grapes 2,500 miles to Atlanta, Georgia, while Michigan's mileage to the same point is only 768 miles; yet the California rate per hundred is \$1.60 while the Michigan rate is \$1.86½. California can ship her grapes to Sault Ste. Marie, Canada, at a rate which is practically the same as the Michigan rate. And so it goes.—H. N.

FUNDS TO FIGHT CORN BORER

WE understand that the federal government does not intend to appropriate funds to be used during 1928 in the European corn borer quarantine area for reimbursing farmers who clean up their corn fields. It has been said that farmers within this area can and should reorganize their farming program so there will be no need of paying them.

If the federal government refuses this financial aid it will be making a very sad mistake. Any farmer who cleans his fields as he is supposed to has to do considerable work at an added expense, not only to protect his crops but the crops of the farmers outside of the infested territory, and he deserves pay for that work. If he does not get that pay his clean-up may not be very satisfactory.

A WISE APPOINTMENT

THE appointment of Prof. J. E. Burnett, of the dairy husbandry department of the Michigan State College, to the office of director of the bureau of animal industry of the State Department of Agriculture to succeed H. W. Norton, Jr., who resigned to accept a position with the Holstein-Friesian Association of America, was a very wise one and meets with the approval of the farmers of Michigan. He is well prepared to carry on the good work started by Mr. Norton.

CATCH BAY COUNTY THIEVES

AS we go to press it looks as though we were going to pay out the \$100 reward we offered from the Wilson Defense Fund for the information leading to the arrest and conviction of the persons guilty of shooting John McNally of Bay County, and burning his barn at 3 o'clock the morning of December 20th. Sheriff Ezra Marvin and Deputy Jerome Hoffman worked night and day on the case until they finally got three young men under lock and key. It is said that one has confessed and implicated the others. They took two bags of beans and five bags of oats which they sold for \$17. Just as soon as the case is settled full details will appear in our columns.



US farmers ain't got any chance to put no profits in our pants: we start to make a little dough and then some feller has to go and spoil it all and make us quit before we can cash in on it. I had the business comin' fine at this here roadside stand of mine, most ev'ry feller stopped to buy Mirandy's chicken and her pie. Then just as things was goin' fine the sheriff, he tore down my sign, and says, "You needn't weep nor wall or I'll take you along to jail."

You'd think I was a crook, by gee, the way that sheriff talked to me, the way he'd tear his hair and rant, you'd think I'd murdered my step Aunt. I says, "If you'll calm down a bit, I'll just give you the straight of it," and then I thought I'd pacify him with a piece of pumpkin pie, and while his mouth was full of that I told him that while he was at it he might just as well sit down and rest himself a spell and have some chicken and some cake. You'd ought to seen that feller take right hold and go for that fried hen, and as he passed his plate again he says, "With grub like this for sale you ain't no cause to go to jail, before I finish up these pies, take this here star, I'll deputize you and when folks is goin' by, arrest them till they try your pie." I shook his hand and asked him back, Mirandy sure has got the knack of reachin' hard officials' hearts with pumpkin pie and lemon tarts!

PETER FLOW'S PHILOSOPHY

The paper tells about the laziest man in the world who went to bed in his early manhood and stayed there for years lettin' his mother support him. Finally his aged mother went to the poorhouse and he went along. The other day he died. I suppose he finally got too lazy to breathe.

I like that idea of puttin' an identifyin' mark on chickens to keep thieves from takin' 'em. Also I like the idea of puttin' a mark on the thieves so you can identify them too. A load of bird shot in the seat of their pants does pretty well.

I was readin' in a Detroit paper about Farmers' Week at M. S. C. The article contained a list of the associations that were goin' to meet durin' the week and it started off with the Michigan Country "Lice" Association. Is that an organization of chicken lice, I'd like to know?

Ever hear this one? A woman wrote in to the editor wantin' to know how long a hen should set on eggs to hatch them. The editor wrote back, "Three weeks for chickens and four weeks for ducks."

A month later he got another letter from this woman and it read, "Thanks for your advice. The hen remained on the nest for three weeks and didn't hatch any chickens. Not carin' to have her hatch any ducks I took her off the nest at once and sold the eggs."

COMING EVENTS

Jan. 30-Feb. 3.—Farmers' Week, M. S. C., East Lansing, Mich.
 Feb. 6-11.—Short Course, Fruit Growers, M. S. C., East Lansing, Mich.
 Feb. 6-11.—Short Course, Market Gardeners, M. S. C., East Lansing, Mich.
 Nov. 7-10.—Greenville Potato Show, Greenville, Mich.
 Nov. 14-16.—Western Michigan Potato Show, Big Rapids, Mich.

"The Business Farmer" is more than a periodical. It is an Institution of Service!

The Publisher's Desk

(We are always glad to do all we can to protect our subscribers from fraudulent deals or unfair treatment from concerns at a distance. We advise on stocks and bonds, and investigate different concerns for our subscribers. This service, including a personal letter is free when subscription is paid in advance.)

"EDWARDS ESTATE" HEIRS

ARE you one of the "heirs" to the "Edwards Estate"? Perhaps you have even invested \$5 with the rest of the "heirs" to get your share of the "valuable real estate"—but we doubt it. We think our readers have followed our advice too closely to fall for this scheme.

The "Edwards Estate Corporation of Alabama," according to Joel F. Webb, of Birmingham, Alabama, who is attorney and counsel for the organization, sought to obtain a large portion of downtown real estate in New York City, said to "rightfully belong to the heirs of Thomas Edwards." We say "sought" because "they" have been indicted by the federal grand jury for using the mails to defraud. The indictment charges, in effect, that Webb had organized the corporation with a view to having himself made general counsel to press the claim of the Edwards heirs.

The Edwards case has attracted wide attention for several years. Thousands throughout the country are said to have joined the "corporation" on payment of a \$5 retainer fee and an additional "genealogy" fee of \$5.

The indictment charges that Webb fraudulently mailed genealogy blanks seeking heirs of the Edwards estate, and that he had falsely created the impression among the thousands of Edwards "heirs" that administrators had actually been appointed for the estate and that "by reason of such false and fraudulent schemes he personally would receive \$100,000."

The trial will come up in March in federal court in Alabama.

All the Edward "heirs" have been getting for their money is air and more air.

PURPOSE OF SECURITIES COMMISSION

THERE seems to be a general misunderstanding prevalent as to the purpose of the Michigan Securities Commission. Some people seem to feel that if the commission passes on investment securities, they are recommending them to the public. This is not true. Quoting from the act of Legislature by which the commission was created, we find that "no order of the commission accepting securities for filing shall be construed as an approval of the merit, value, or worth of such securities, and any person who in any manner represents that the State, commission, or any officer thereof has recommended its purchase shall be deemed to have violated this act."

Further the act requires every order accepting securities for filing shall contain the following, "In accepting this security for filing neither the State of Michigan or Michigan Securities Commission have undertaken to pass upon the worth or value of the security mentioned or to recommend its purchase."

The purpose of the commission, to quote again from the act, is "to prevent fraud, deception and other securities sold or offered for sale within the State of Michigan."

Just remember when you are informed that the Michigan Securities Committee validates an issue of

bonds or stock that it does not mean the commission in any way recommends these securities as a suitable investment.

AFTER MAIL-ORDER EYE DOCTORS

DRIVE to stamp out the sale of eyeglasses fitted by mail or selected over the counters of stores by the self-serve method has been started by the Eye-Sight Conservation Council of America working with the better business bureaus throughout the country. Guy A. Henry, general director of the council, declares that it is absolutely impossible to fit eyes by mail, telephone or in any other way except by the direct service in person of one skilled in the work.

We heartily agree with Mr. Henry's statement and have used space in these columns many times to warn our folks against taking such a chance with anything so precious as their eyesight. We also condemn the "eye doctor" who travels about the country instead of maintaining an office where his customers may call. Some of them are alright perhaps, but too many crooks are working this game to take a chance.

PHYSICAL CULTURE

I am writing you in regard to a physical development course offered by Earle E. Liederman of New York. Do you think this course would harm a person?—Subscriber, Kingston, Mich.

WHETHER or not the physical development course would harm a person would depend on the present physical condition of that person. It would be harmful to anyone suffering from tuberculosis or troubled with a weak heart. The trouble with most of the physical development courses is that their aim is to build up powerful muscles and little attention is paid to general health. Physical exercise is beneficial and necessary if we are to have a healthy body but there are other things such as nutrition, personal hygiene, lots of fresh air and sunshine, and plenty of rest, that must be considered. Just building up big muscles will not make one physically strong.

Anyone interested in keeping fit need not invest in an expensive "development" course because the daily dozen will be just as beneficial and far cheaper. Your family physician will suggest exercises for you that will match your physical condition, if you will consult him.

GET TWO "EYE DOCTORS"

SHERIFF H. W. BOORN, of Eaton county, did not succeed in getting the governor of Illinois to let him bring Fred Asner, known as "Dr. Anderson" to many Michigan folks, back to this State to face charges of swindle, but he did get a couple of other fellows who have been working the same game. They are Otto Swartz and Harry Klein, who are guilty of obtaining large sums of money from Eaton and Ionia county residents through the fraudulent means of pretending operations on the eye. Sheriff Boorn found them at Wheaton, Illinois. The pair is believed to be part of a gang of confidence men operating on a large scale in the United States. They should be given the limit of the law in Michigan State prison.

WOODS VIOLATES BLUE SKY LAW

VIOLATING the Blue Sky law of Michigan got George W. Woods, Detroit and Ann Arbor real estate dealer, in wrong with State authorities. Most of his alleged victims were women, and the amount said to be involved is \$13,000. One woman claims she lost \$10,000 through Wood's alleged promotion of a Florida land scheme.

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C. M. Ross, Mt. Enterprise, Texas, says: "A farm that is not properly fenced cannot be sold to a man who is able to pay for it or to a man who can make it pay for itself." And G. S. Russell, Milford, Mich., makes another statement, equally true: "Many renters are insisting on a well fenced farm or they will stop farming." Take care of your renter if you want your renter to take care of you.

RED BRAND FENCE

"Galvannealed"—Copper Bearing

will help you do it. Without good fence J. R. Rasberry, Cushing, Texas, says he could not have raised \$50 worth of pork where he raised \$500 worth with good fence. And without good fence how could J. E. Rush, Bonilla, S. D., have topped the Sioux City market with fat lambs that were never fed a mouthful of grain except what was left in the fields after threshing.

No other fence is like RED BRAND. We put copper in the steel, like old time fence. This adds many more years of wear. Our patented "Galvannealing" process welds on an extra heavy coating of zinc. This keeps rust out far longer than plain galvanizing. Stiff, picket-like stays, wavy strands and Square Deal can't-slip knots keep RED BRAND hog-tight and bull-proof.

That kind of fence may make it possible for you to duplicate Arthur Tauberg's, Wallace, S. D., experience when he topped the hog market by 10 cents on 87 head that netted him \$2300 out of a sweet clover pasture planted with barley and a 40 acre cornfield laid flat by wind.

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The Collection Box

The purpose of this department is to protect our subscribers from fraudulent dealings or unfair treatment by persons or concerns at a distance.

In every case we will do our best to make a satisfactory settlement or force action, for which no charge for our services will ever be made, providing:

- 1.—The claim is made by a paid-up subscriber to The Business Farmer.
- 2.—The claim is not more than 6 mos. old.
- 3.—The claim is not local or between people within easy distance of one another. These should be settled at first hand and not attempted by mail.

Address all letters, giving full particulars, amounts, dates, etc., enclosing also your address label from the front cover of any issue to prove that you are a paid-up subscriber.

THE BUSINESS FARMER, Collection Box, Mt. Clemens, Mich.

Report Ending January 12, 1928
Total Number Claims Filed.....3,114
Amount Involved.....\$35,222.58
Total Number Claims Settled.....2,593
Amount Secured.....\$30,876.98

Pride in Accomplishment Prompts the

MICHIGAN BELL TELEPHONE CO.

to Call Attention to
the Bell System's

Far-Reaching Developments In Communication During 1927

* * *

THESE INCLUDE:

Television, by means of which it is possible to see a person as well as to hear the voice over the telephone, and which was given its first public demonstration during 1927.

Trans-Atlantic Telephone Service, making it possible to talk from any telephone in the United States to any telephone in England or Scotland.

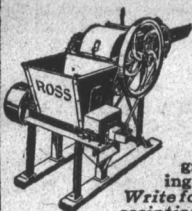
Direct telephone service to Mexico.

All of these developments help toward the realization of that principle of the Bell System—

A communication service by which anyone, anywhere, may talk with anyone else, anywhere, at any time of the day or night.



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Better Grinding
Greater Capacity—
Less Power—Slow
Speed—Four burrs—
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Cutter-mill combina-
tion or mill separately—
Grinds Kaffir corn
in the head, alfalfa,
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grain of all kinds, mak-
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FISH Choice frozen Pickerel round 8½¢ per lb.; Pickerel headless, dressed 10¢; Yellow Pike 12¢; Herring round 5½¢, dressed 6½¢; Perch, good size 7¢; Sheepheads 7¢; Suckers or Mulletts 5¢; Carp 5¢; Salmon 14¢; Flounders 10¢; codfish 13¢; Mackerel 12¢; Halibut 18¢; Whitefish 12¢; Fillets of Haddock, 15 lb. boxes \$2.25. Include 35¢ for Box charge. Order any amount wanted. For many other varieties send for complete list. One-half cent per lb. lower in 100 lb. orders.

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The Farmers' Service Bureau,
The Business Farmer, Mt. Clemens, Mich.

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THE BUSINESS FARMER
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Send your 1928 Seed Annual quoting direct from grower prices on Quality Seed.

Name.....
Address.....

"Seventeen Is Grown Up"

A Frontier Story in the Days Before the Revolution

By A. E. DEWAR

SUMMARY OF STORY

DUNCAN McAFEE, an orphan, from Bethelhem, Pennsylvania, going on seventeen, is going to North Carolina to live with his uncle. Traveling by wagon train, encountering all sorts of dangers, he has a real thrilling trip, and proves that "seventeen is grown up" by saving a fair young lady from bandits who attack the train, killing most of the people and carrying her off into the woods. The journey from Bethelhem to Fredericktown was uneventful but a little beyond the latter place they are joined by the Sawyers, a girl about Duncan's age and her father. While camped one night a bedraggled stranger comes into camp, begs a meal and tells of being attacked by Indians. After that Duncan mounts guard but one night he falls asleep only to be awakened by the noise of attacking raiders who shoot some of the men, take their money, horses and other belongings of value, and make their escape, carrying the Sawyer girl away with them as a prisoner. Duncan is determined to rescue the girl. He follows at a distance for a time but later joins the robbers without creating much suspicion. Appearing to be homeless and friendless they give him a job as cook's helper. The leader leaves camp for a few days and Duncan plans to escape with the girl before he returns.—Editor.

(Continued from January 7th issue)

"SOME of my men are following," he confided. "We may see what horses and gold this settlement has, before we go back. There is no great rush, but perhaps I had better finish you off and get to other work. Eh, sweetheart?"

Duncan did not dare to look at her again. He tensed himself. The quicker the shot was fired and the alarm given, the more time there would be for the men of the hamlet to fight off the bandits, the more chance to rescue Agnes again. The quicker he died, in other words, the better for her.

He took two quick steps and leaped. There was a red flare in his face, and a terrific noise. He felt as if some one had struck him with a club. Somehow he was down on the floor; he felt the pressure of an uneven puncheon against his cheek; after that, things faded out.

He went, some time after that, into a land where strange and terrible things happened. There were nightmares that outranked anything he had ever had. He was conscious of moaning, of screaming even. And in these nightmares, Duncan, bolder in his dreams than in life, held Agnes in his arms. But always Locke came between them, and always Duncan was helpless. So he was tortured over and over.

After a long time, he came back to a more familiar country, to a corn-shuck bed, to a room with walls of hewed logs, to a consciousness of a terrific ache in his head, and of complete exhaustion. About this time, a fat, complacent woman came in and stood over him.

"Ah," said she, "better, be ye? I reckoned as how that last batch of herbs would bring you around."

"Agnes?" he asked, and was surprised to see how weak his voice was.

"Well enough, and still better when she sees you so fine."

Duncan asked what had happened that night. Had Locke escaped?

"Escaped? I should say not. Your little girl killed him as dead as a doornail. Picked up your pistol and shot him as he fired at you. This is the sort of woman to have in the back country. You're lucky."

With Locke dead, it seemed that short work had been made of the six that followed him. They had ridden into ambush. The ones who lived were forced to lead the way back to their camp. The fight that followed had been short. A number of trees had been decorated. A number of horses and a good bit of money had been brought back. There were no prisoners.

She went out presently, but with a grimace that at once pleased and confused him. Her intentions were too evident. She was going to send Agnes in, and was going to do it with the arch air of a match-maker.

He watched the door, half angry, half confused. Out in the woods again, he would know what to say to her. Here he doubted, and the very thought of saying anything found his mouth suddenly very dry.

The door swung open with a bang. Agnes Sawyer came running in. She was over to him in an instant, her gentle, quick hands touching his bandages, his face.

"You are better, aren't you?" she cried. "My, I'm so glad! I thought—I was afraid—"

"She paused. Duncan felt the warm pressure of her body against his shoulder. He looked up. She was staring into space, her mouth slightly open, her eyes flamed with drops not ready to fall. She was recalling their father, of course; perhaps recalling, too, the night later when disaster of the same sort seemed to overtake her again.

To ease the terror that still hung over her, Duncan raised two timid arms and drew her to him. She suffered him to touch her eyelids with his lips. Then with sudden courage he tightened his arms and kissed her full on the mouth. Was there any answering pressure? He hardly had time to guess. She squirmed out of his grasp, very pink, and seated herself on the bedside.

"You'll hurt yourself," she said, and looked down at the floor. Then she went on to tell how the men had agreed to turn over to them horses to the value of those lost in the first raid. Sawyer's horses were to be hers, and they were to drive the rest down to Bethabara. A share of the money also was to go to Duncan and the girl.

Duncan only half listened. Her hand lay on the coverlet. He moved his own over to it, swallowed hard, and daringly placed his hand over hers. She faltered in her talk, but went on. Her hand did not move. He pressed it, and presently it turned and clasped his. Then he took a deep breath and said:

"I'll take you down to Bethabara and leave you with the sisters while I get a farm picked out. We've got enough money to get some tools and stock. In six months or so, I can come back and get you."

"You're not seventeen yet," she objected. "That's young to be marrying."

"I'm as old as you are," he retorted, "and, anyway, seventeen's grown up in the back country." She was silent. "Isn't it?" he persisted.

Perhaps her thoughts went back to that struggle by the camp fire, the long ride through the darkness, the days and nights of terror, and their final escape. Duncan was only conscious of his loneliness, of the fact that whether she came with him or not, he had given a hostage to fate. Never again would he know the old self-sufficiency. For better or worse, his life was bound up with hers. How closely, it was for her to say.

"You're grown up enough for me!" she said, and leaned over to him.

(THE END)

We have long been subscribers to M. B. F. and like it very much. Especially, we appreciate the way you take the farmer's part against fraud and injustice of all kinds.—Arthur and Louise Drew, Livingston County.

We have not been subscribers to M. B. F. very long but already all of us like it so much that we wait for it with great impatience and all want to be first to look at it.—John F. Dahlman, Van Buren County.

We take M. B. F. and find lot of good in it.—Mrs. Delos Salisbury, Montcalm County.

NEW STORY STARTS IN FEBRUARY 4TH ISSUE

WE are glad to tell you folks that the Muirs and Doug Summers whom you became acquainted with in "Homestead Country" are coming back again in "Catapult" which starts in the next issue. "Homestead Country" was one of the most interesting stories that was ever published in these columns, and we think "Catapult" is even better.

The title of the story is taken from the name of an untamed horse that Doug wants to ride—and which he does ride after getting thrown and almost killed. Doug is an expert rider and he is willing to match wits with any untamed bronco, but is particularly anxious to conquer Catapult because of a purse of \$1,000 offered to the man who can ride him. Mary Muir and Doug are sweethearts and he wants the money so they can get married. Around this is woven a very interesting story which we know you are going to like.—Editor.

THE FARM GARDENBy O. H. HARNDEN
(Questions Gladly Answered)**GARDEN SOIL**

THE remark is often heard from farm folks, "I would plant more garden crops if my soil was adapted to that purpose." In some cases this remark may be justified but as a general rule, a soil that will grow good farm crops, can be put into condition for growing truck crops, with slight improvements, providing it is well drained.

While most soil and garden authorities usually show a marked preference for sandy loams, as a matter of fact our heaviest yields are usually produced on soils of a somewhat heavier texture.

The writer himself is gardening entirely in a soil that might be rightly classified as heavy clay loam, but by systematic drainage and cultural and tillage methods it has been transformed into a very desirable type of garden soil, from the standpoint of heavy yields, early maturity and ease of tillage. Notwithstanding the general traditions and belief expressed by some authorities that clay soil is slower to warm up in the spring there is no doubt in my mind but what it will warm up as early and in most cases earlier than most of our sand soils.

It often happens that we find a sandy knoll which is quick to warm up but this same virtue often renders it incapable of carrying the crops through to maturity due to its lack of ability to withstand drought which we often experience during the early growing season.

It is also true that sandy soils can often be worked and planted under conditions that would have a disastrous effect on heavy soils, which means that we who are blessed with soil of the latter type are compelled to observe certain cultural and tillage methods if best results are to be realized.

The effect of working clay soils when too wet will often be noticeable for two or three seasons after.

As to building up a soil for truck crops, the first requisite is ample drainage either by tile or open ditches as conditions at hand permit. The next step is to provide the soil with humus forming material which is necessary to enable the soil to hold water during dry seasons and also to provide a base for fertilizers to work on. Where commercial or chemical fertilizers are to be used this is very essential as the lack of humus is no doubt the most frequent cause of soils failing to respond to chemical fertilizers.

This increase in humus may be brought about either by the application of well rotted manure or by turning under green manure crops such as rye or clover.

In either case it is advisable to use some commercial fertilizer as neither of the above methods will furnish the necessary elements to growing plants in a balanced form.

In cases where manure is used the fertilizer may be limited to a mixture containing the mineral elements only; i. e., phosphorus and potassium. Manure will usually contain sufficient nitrogen. Where green manure crops alone are relied on a complete fertilizer will be necessary such as a 4-8-8 or 4-8-6 analysis. Small amounts of lime are also necessary to correct soil acidity due to decomposing of the green manure.

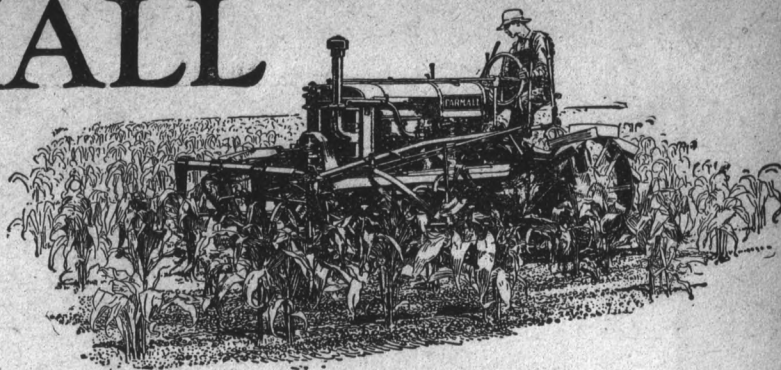
Our method is to rotate those



A GOOD WINTER JOB
Mike and Red, the fuel makers for the Eastman home, in Saginaw county.

FARMALL

— the great Row-Crop Tractor AND General-Purpose Tractor



FARMALL was specially designed so that it could handle the planting and cultivating of corn and other row crops. Its fine work at this has made a great hit on corn-belt farms. But that's only part of the story.

Here is a letter plumbful of endorsement for the FARMALL, yet the most notable statement is this simple line — "We have not yet used the cultivator."

Mr. Hastings' enthusiasm is based entirely on the general-purpose drawbar and belt performance of the FARMALL. In the corn fields the FARMALL is famous as the one tractor that handles row-crop cultivation like a charm. And here is first-rate evidence that it leads in general farm power work also. Keep in mind that this owner has operated several tractors of other makes. He qualifies as a practical authority in power farming and his verdict is "I believe the FARMALL is as near an all-purpose tractor as can be built."

Write for catalog and see the FARMALL at the McCormick-Deering dealer's

FARMALL in the Hay:

"We were told by the owner of a 2200-acre farm that he had 400 acres of hay that would be lost unless we found him a mower that would work. He had tried a number of horse-drawn mowers, but the crop was so heavy he had to give it up. We sent him out a FARMALL tractor with 7-foot mower attachment, and received a check for the outfit in full the next day. It worked to the owner's entire satisfaction, and he is an enthusiastic FARMALL booster."—From our branch at Minneapolis, Minn.

An Open Letter from —

H. G. HASTINGS COMPANY
Atlanta, Georgia

Gentlemen:

Following a demonstration of your machine which was placed at our disposal for testing in the autumn of 1925, we purchased a machine the following spring and believe me, it has been on the job WITHOUT FAIL ever since—I believe it is as near an all-purpose tractor as can be built.

We have used our FARMALL along with two McCormick-Deering 15-30 tractors and are doing the work formerly done by five to seven tractors of other makes.

The FARMALL is thoroughly competent to plow, harrow, culti-pack, drill grain, list corn or peas, plant, mow hay, operate grain binder and though we have not as yet used the cultivator, I know it will operate satisfactorily at that, as we used your outfit in testing your machine in 1925, and above all that we have used it on any number of belt jobs and find it the most economical tractor we have yet used.

Please do not thank me for this as it is too well deserved.

Respectfully,

D. M. HASTINGS

INTERNATIONAL HARVESTER COMPANY
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McCormick-Deering FARMALL

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Shows a big variety of Flower seeds, Vegetable seeds, Farm seeds, Lawn Grass, Bulbs, Roots, Flowering Shrubs and Roses. All Super-Quality, all TESTED, all GUARANTEED with a Money-Back Bond. Write for this interesting Book NOW. A post card will bring it. It's free.

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Write today; mention this paper.

SEND 10 CENTS to cover postage and packing and receive this valuable collection of seeds postpaid, together with my big instructive, beautiful Seed and Plant Book, tells all about Buckbee's "Full of Life" Seeds, Plants, etc.

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WATCH, RIFLE, CAMERA OR FLASHLIGHT

for selling 30 PACKS assorted Vegetable and FLOWER seeds at 10c per large pack. Easily sold; **EARN BIG MONEY** or premiums. **WE TRUST YOU.**
AMERICAN SEED
DEPT. 104
LANCASTER, PA.

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for The Business Farmer when writing to advertisers. It helps us and helps you

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THE CHILDREN'S HOUR CLUB

Motto: Do Your Best
Colors: Blue and Gold

Mildred Darby, President
Thomas McCarthy, Vice-President
Uncle Ned, Secretary-Treasurer

As a member of The Children's Hour Club I pledge myself:

- To live a Christian life and keep the Ten Commandments.
- To do my best in everything I do.
- To be true to my country, the United States of America.
- To do at least one good deed each day.
- To assist the less fortunate than I.
- To be considerate of others.
- To be kind to people and to animals.
- To become educated.
- To always conduct myself in a way that is becoming to a lady or gentleman.

DEAR BOYS AND GIRLS: Have you voted yet? You know we are having election of officers of the Children's Hour Club and the "polls" close February 1st, so if you have not cast your ballot for your favorite candidates you better do so at once. Many have already voted but not enough to be a fair representation of all our members. Let's have more votes.

Also, if you have not joined our Club you still can at any time by sending in a two cent stamp as your initiation fee. When I receive your application and initiation fee I will send you a pin and pledge card. Many are sending in their stamp along with a ballot—killing two birds with one stone, so to speak. That is a good idea, I think.

I suppose you are beginning to wonder if we are going to have any more contests very soon. Yes, we are—just as soon as we get this election out of the way, so if you have any suggestions on the kind of contests you want put on during the next three or four months just let me know. I plan on having a lot of them between now and spring.

Quite a number of boys have written to the Scouting Editor about becoming a Lone Scout but he wants to hear from more of them. If you are at all interested write to him. If you are already a Lone Scout tell us about it. If you are not, but want to join he will gladly give you detailed information about this most interesting work. Not only will you have lots of fun but you will learn many things that will be of great value to you. Address your letters: Scouting Editor, THE BUSINESS FARMER, Mt. Clemens, Mich.

If you have any suggestions as to how we can make Our Page better in 1928 than it was in 1927 do not be afraid to "speak right out in meeting." This is your department just as much as it mine, you know.—UNCLE NED.

Our Boys and Girls

Dear Uncle Ned:—When I wrote before I asked who could guess my last name. Well I received a card and the person who wrote had guessed it, but why shouldn't he? I went to school with him for a time. I am five feet tall and weighed 100 pounds the last time I was weighed. I must weigh more now. I have brown hair and dark eyes. My hair is bobbed. I went away last summer for a visit and had it cut while I was gone. My folks did not say much about it when I came home, only that they didn't like it. I don't like it very well myself now. I had long curls.

Girls, I have one thing to say. Never cut your hair, no matter how good or how bad it will look, because I am sure you will see the day you will be sorry you cut it, unless your folks say you can. If I had my hair back no money could get me to cut it again. Let us talk about something else now.

My age is between 10 and 13. Who can guess it? If you know me or not if you will drop me a card or letter I will be glad to answer it.

I am in the fifth grade at school. I have five brothers and a sister-in-law. Also two nephews and there isn't another girl who is more proud of two nephews than I am. I just think the world of them.



Motto: DO YOUR BEST
Colors: BLUE AND GOLD

Uncle Ned, how can I get a pin? I want one very much. Your want-to-be niece, Helen Ridley, R. 1, Gladwin, Mich.

—I really think bobbed hair is nice but I agree with you about not cutting your hair unless your folks say you can. Certainly you should obey your parents. To get a pin all you must do is send in a two-cent stamp. You can do that can you not?

Dear Uncle Ned:—I wrote once before and my letter was printed. That certainly was encouraging. I intended to write again soon but I have had quite a bit of school work to do and did not get around to write until today.

Say, Uncle, will you answer this question? How many members are there in the Children's Hour?

My hobbies are riding horse back and swimming. My sister and I have a little brown saddle horse all of our own and we surely enjoy riding him in the summer time. Your want-to-be niece, Marjorie Hering, Corunna, Mich.

—I am sorry, Marjorie, but I cannot give you an authentic answer to your question as to the number of members in the Children's Hour. You see every girl or boy who writes to or reads Our Page is a member and the M. B. F. goes into over 95,000 farm homes which means there must be many, many thousands of members. Yes, we have a real department alright.



READY FOR A SNOW FIGHT

This is Pauline Rader, of R. 1, Fibre, with her brother Jake. Looks like they were waiting for someone to come along so they could throw a snowball at them.

Dear Uncle Ned.—My mamma reads me your letters from other little girls and boys. I am an orphan by rights but live with my auntie and uncle and call them mamma and papa. I am only five and will go to school next year. We live on a large farm one and one-half miles from school. Yes, Uncle Ned, I also have a little sister, Louis Jane in Greenville, Mich., with my grandma. She is three years old. I have light hair and blue eyes. I have a nice dolly to play with and she has two faces. One cries and one laughs. I call her Bessie. I also have two kitties that I play with. One has a bob tail and I call him Bobby, the other I call Muffins. I am sending you a picture of me. Will you write me a letter, please, Uncle Ned? Love from your would-be niece, Hope Hunter, R. F. D. 1, Box 59, Ceresco, Mich.

—I was glad to get your letter, little Hope. It isn't so bad being an orphan when you have a nice Auntie and Uncle to call Mamma and Papa, is it? I certainly like the picture you sent me of you. Your dolly and kittens must make very nice playmates. Write me again.

CAN YOU SAY IT?

I AM giving you a tongue twister sentence to publish on Our Page. It is: Lingered alone along a lonely lane in Spain.—Carmel Faircloth, Onaway, Mich.

Dear Uncle Ned:—Having seen in the Michigan Business Farmer, the Children's Hour, a club for all boys and girls, I have decided that I will join if you want me too. I like your motto very much, and wish that you would send me a pin. And here is a question I want to ask. Do you have to have your letter on the Children's Hour page in order to be a member of your merry circle? I sent you a letter

some time ago, and did not know whether my letter had been lost, and if not was not sure if I was a member or not.

Well, as it is custom, I think I will describe myself. I am five feet tall, have light hair and blue eyes, I am twelve years old and am in the seventh grade. In the morning from nine to ten o'clock I have instructions.

I see on our page that you have a tongue twister, and are asking for someone to send one in if they know any. How are these?

Peter Prangle, the prickly, prangly, pear picker, picked three pecks of prickly, prangly pear on the pleasant prairies.

Here is another one: The old cold scold sold an old school coal scuttle. Well I think I had better quit, for my hand is getting tired, and you will be getting tired too after you have read all this. I hope the old waste basket has a sore throat, so that he can't swallow this letter. Your Nephew, Donald Erdman, R. 1, Utica, Mich.

—I am sending you one our pins, Donald, also a card on which appears our pledge. If you wish to become a good member of our circle you must accept this pledge. Put it up in your own room where you can see it every day. You do not have to have a letter printed on Our Page in order to become a member but this one is appearing on this page anyway. Guess Old Man Waste Basket must of got your other letter when I wasn't looking. I'll have to get a muzzle and put it on him. Your tongue twisters are very good. Isn't it fun trying to say them? You get all mixed up until nobody can tell what you are saying.

Dear Uncle Ned:—This is the first letter I have ever written to you, but I have read the Children's Hour a lot and would have written before but I did not know your address. I am sending my two cents



WHY THE BROAD SMILE?

Well, you would smile too if you had done what Ruth Wicko, of Oakley, has. She is ten years old, has two miles to walk to school, is in the sixth grade, and has not been absent or tardy for three years.

because I want to be a member of your club. I am also enclosing a ballot.

I will describe myself now. I have black eyes, almost black curly hair, and a dark complexion. I am 13 years old and in the sixth grade at school.

All you girls and boys please write to me and I will answer. I remain as every your want-to-be niece, Grace Sedar, Clarkston, R. 2, Mich.

—Welcome to OUR Club, Grace, not "your club," because it belongs to all of us.

Dear Uncle Ned:—I am writing to you and want to thank the cousins who nominated me for vice-president. I have not written in for some time but I have not forgotten you.

We are having two weeks Christmas vacation at my school. I go back to school Monday. I got a wrist watch and a lot of other nice things for Christmas.

I hope Mr. Waste Basket is asleep. The snow is quite deep here.

Well, Uncle Ned, I will close and write to you again real soon. I want to say hello to all the cousins. Your nephew, Elton Hickmott, R. 3, Box 107, Birmingham, Mich.

—Glad to hear from you again, Elton, and will look forward to more letters from you.

ANOTHER TONGUE TWISTER

IN a recent issue we published a tongue twister and suggested that if any of our readers knew some good ones to send them in. Here is one we received:

Able, are you able to set the table in the stable? If you are not able to set the table in the stable, Able, I will set the table in the stable as I am able to set the table in the stable, Able.

It is quite hard to say if you try to say it fast. Now you send in one.

THINGS WORTH KNOWING

Excelsior, used for packing, is mostly made from the wood of the cottonwood tree, which dries into fibre of light weight.

The Chinese tell time pretty accurately by looking at a cat's eye. The pupils become narrower as noon approaches and wider as the afternoon wears on.

The Greeks had the first written music. A red diamond that weighed eighteen carats recently was found in the Transvaal.

England is the world's greatest manufacturer of motorcycles.

Goats, cattle and horses have been known to eat poison without ill effects.

Cloth is being made from pineapple leaves in the Philippines.

The peanut is really not a nut at all. Explorers found an underground river that flows under Mount Blanc, the highest mountain in the Alps.

Experiments have shown that the sense of color is not developed in children until they are about two years old.

The lowest spot on the surface of the earth is where the river Jordan joins the Dead Sea.

Lightning is not flat and jagged, but follows a spiral course through space.

Houses five stories high have been uncovered at Ostia, in ancient Rome.

Riddles

Dear Uncle Ned:—Would you like some riddles to publish? A few are:

Which side of a dog has the most hair? The outside.

Why do we go to bed? Because the bed will not come to us.

What is the difference between a pair of pants and a pie? You cut the pants before you make them and you make a pie before you cut it.

Why is a dog's tail like the heart of a tree? Because it is the farthest from the bark.—Carmel Faircloth, Onaway, Mich.

What bird is at the table when you eat? Swallow.

What stands on its head all the time? A nail in your shoe.

A Game to Play

PROGRESSIVE FORTUNES

GIVE each person a piece of paper, at the top of which he writes his name before folding it over so that it cannot be seen. He then passes it to his neighbor. When all the slips of paper have passed to right-hand neighbors, each person is asked to write a four word description of his past life, fold the paper so what has been written cannot be seen, and pass it on. Next comes a four word description of the wife, husband, or sweetheart of the present holder of the paper. Next comes what they think of each other, and, after the paper has been folded and passed the last time, what their future will be. Then the papers are unfolded and read by whoever happens to be holding them.

BALLOT

I, THE UNDERSIGNED, of my own free will, do hereby cast my vote for officers of The Children's Hour Club, to take office February 1st, 1928, and serve for one year, to February 1st, 1929, as follows (make an X in the square before name of candidate you vote for):

PRESIDENT

☐ ELSIE MATZKE, R. 5, Saginaw, W. S.

☐ EATHIEL FAY SHARP, Akron, Mich.

VICE-PRESIDENT

☐ HELEN B. KENNISON, Star Route, Kalamazoo.

☐ ELTON HICKMOTT, R. 3, Box 107, Birmingham.

Signed: _____

Name: _____

Address: _____

Age: _____

She
Sleeps,
Cries,
Sucks
Her
Thumb



You'll Just Love Honey Bunch

and you can have her
without a penny's cost

GIRLS! Honey Bunch is the Newest, Sweetest, Doll in Aunt Molly's whole doll family. She is a darling new doll with soft rubber arms and hands. They are just like a baby's. And she sleeps and cries. You can put her to sleep sucking her thumb or the cute little pacifier that just fits her round little mouth. Her head is unbreakable and turns from side to side and you can wash her face and hands.

Honey Bunch is just the cutest and most cuddly baby doll you can imagine and she is big, too—over a foot tall and dressed just like a real baby, with a flannel diaper "and everything." She wears a cute little petticoat and long baby dress trimmed in fancy lace.

It's SO Easy

Honey Bunch is not sold and she is waiting for you to send for her and be her little mother. You can be the first girl to have one of these darling new dolls. You can't help loving her when you lift her out of the box and she cries and sucks her thumb. I just know you'll be SO HAPPY!

Send Coupon TODAY!

Find out how EASY it is to get Honey Bunch! Send the coupon today. Like thousands of other little girls, YOU too, can have her without the least bit of trouble and you'll be SO HAPPY. Just let Aunt Molly send you a big picture of Honey Bunch and tell you all about her. But HURRY—Mail the Coupon Today!

Tear Out This Coupon and Send Today

AUNT MOLLY, Dept. 2842 Spencer, Indiana

I want to have Honey Bunch for my very own. Please write and tell me how I can get her without a penny's cost to me.

Name.....

R. F. D. or Street.....

Town.....

State.....

We Can Save You Money

If you wish to subscribe to any magazines write to us rates. If you are going to renew your subscription to any magazine, get our rates before you do so.

We can save you money on your magazine and newspaper subscriptions.

DEPT. C

THE BUSINESS FARMER
MT. CLEMENS, MICH.

Visited by Thieves

(M. B. F. pays a reward of \$50 to the person responsible for arrest and conviction of anyone guilty of stealing poultry from a subscriber, and \$25 reward where other livestock, fruit, grain, or farm implements to the value of \$10 or more are taken. Write us for complete rules governing payments of rewards.)

Wrung Heads Off.—Mrs. Loyal Burdick, who lives near Shaftsbury, Shiawassee county, reports that during the night of January 7th thieves entered her chicken coop and carried off eleven chickens, after wringing their necks and leaving the heads in the coop. Shiawassee county officers are now at work on the case.

Loses Eighty Chickens.—Thieves visited the coop of Arthur Hamlin, who lives near Carson City, and took eighty chickens valued at \$100. Officers are working on the case.

Scare Thieves.—Edward McFadden, South Lyons, was awakened by a noise at his hen house. Looking out the window he saw a couple of men making their getaway with his chickens—between 50 and 60 birds—in sacks. Grabbing up his gun he fired several shots into the night air and the thieves dropped their loot and ran.

Forty-One Pure Breds.—Forty-one pure bred chickens, valued at \$50, were recently taken from the poultry house of M. O. Chapman, who resides near Plainwell. Officers have failed to find any clues.

Put on Probation.—Lawrence Adams, farm hand, of Kalamazoo, was recently convicted of stealing chickens. The judge put him on two years probation.

Take Fruit and Vegetables.—Entering the home of Fred Brendt, of Lake Odessa, thieves carried off a quantity of canned fruit and vegetables.

At Christmas Time.—Thieves made themselves a Christmas present when they stole between 30 and 35 Rhode Island Reds from Rex Tingle, Calhoun county farmer.

Posts Reward.—Dr. Frank King, of Benton Harbor, who lost several chickens and some turkeys from his farm before Christmas has posted a reward of \$50 for the arrest and conviction of the thieves.

Steal Two Hogs.—Thieves entered a pig pen on the V. P. Thelen farm, near Mt. Clemens, and carried off two pigs. The animals were killed before they were taken away. Officers have found no clues as to the identity of the thieves.

Active in Jackson County.—Reports coming to the office of the sheriff of Jackson county indicate that thieves are active among the farmers in that territory.

Reward for Dogs.—Alarmed over the losses to wool growers in the vicinity of Nashville the assessor of that village has offered a reward of \$25 for information leading to the identity of dogs which have been killing sheep on Nashville farms. It is believed that this is the first time in the history of Michigan agriculture that a reward for this purpose has been offered.

Oats Missing.—Arthur Hobson, Montrose, Mich., reports thieves forced their way into his granary and carried off forty bushels of oats. Officers have found no clues.

Gets Stiff Sentence.—When chicken thieves come up before Judge R. A. Hawley, of Stanton, they get what is coming to them. Eben Talmanteer, of Howard City, was recently found guilty of attempting to steal chickens and Judge Hawley sent him to Jackson State prison for from two and a half to five years.

We have only been a subscriber since September but we are sorry we did not subscribe for M. B. F. before, we can hardly wait the two weeks between papers. —Henry S. Graves, Genesee County.

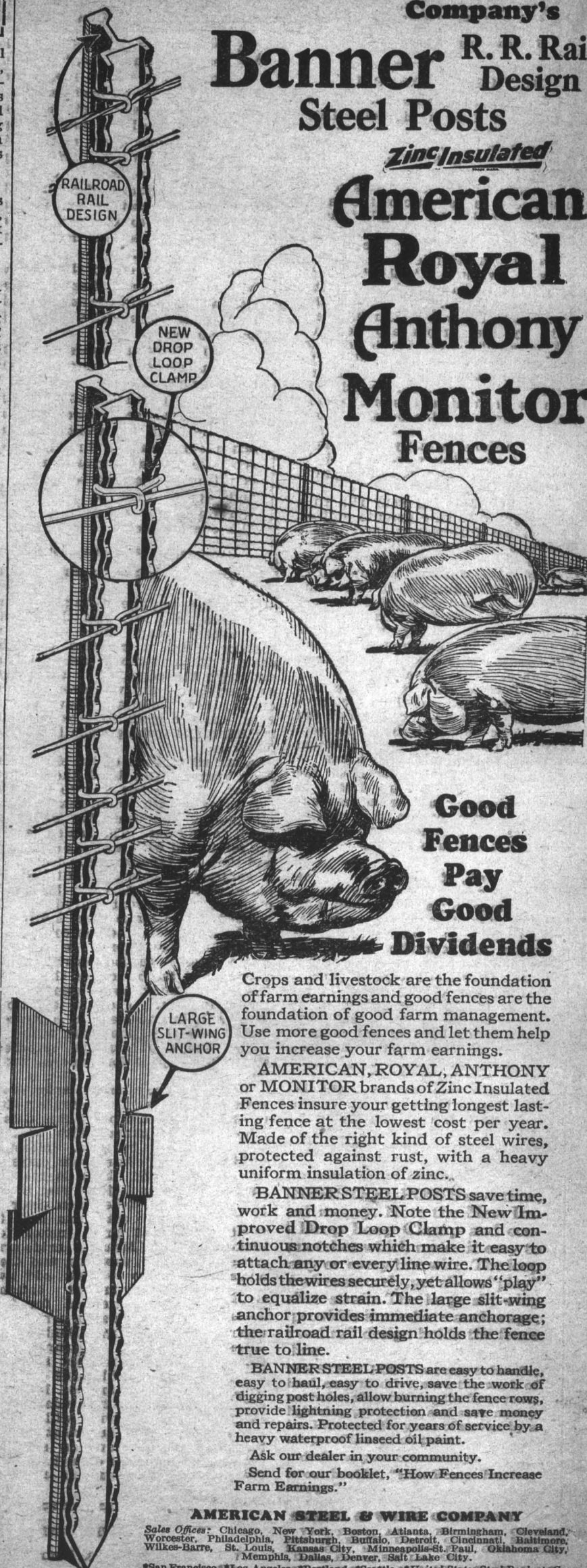
I think M. B. F. is a good paper and the free information is wonderful. Also your fight on chicken thieves is wonderful. —Clifford Peters, Charlevoix County.

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Zinc Insulated

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BANNER STEEL POSTS save time, work and money. Note the New Improved Drop Loop Clamp and continuous notches which make it easy to attach any or every line wire. The loop holds the wires securely, yet allows "play" to equalize strain. The large slit-wing anchor provides immediate anchorage; the railroad rail design holds the fence true to line.

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A LAUGH

A laugh is just like music,
It freshens all the day.
It tips the peaks of life with light
And drives the clouds away;
The soul grows glad that hears it,
And feels its courage strong—
A laugh is just like sunshine
For cheering folks along.

NEW CHAIRS FOR OLD

SOMEWHERE around your house do you have a big, old chair which is no longer beautiful to look upon but is such a comfort to sit in that you are loath to part with it? Perhaps, it became so much of an eyesore that you have already consigned it to the attic or the barn, with many a sigh for a really "easy" chair is hard to find, and when we at last discard it, it is like saying farewell to an old friend.

If you have such a "relic," drag it forth from its hiding place. If the framework is solid and good, the chair can be made to appear like new again by the simple expedient of making a slip cover for it to hide its shabbiness. The use of slip covers to protect upholstered furniture during the hot summer months is, of course, a familiar custom. Gradually, however, inexpensive and easily freshened slips are being used the year around in many homes as a means of restoring worn-out upholstered furniture to a place of dignity and usefulness.

Keep in mind that your slip covers are going to be a definite part of your home furnishings, and select materials and covers that will harmonize with the rest of your home. Choose a patterned or a plain fabric that is tubfast, durable, and not easily mussed. Cheap material that fades and runs with the first washing is no economy; it is better to pay a little better price and get something that will "grow old gracefully." Figured cretonnes, denims, and linens are good. Percales and calicos are also frequently used, and the effect produced is quaint and lovely when the slips are finished with fluted, shirred, or finely pleated ruffles and bound with straight or scalloped hems.

The textile used determines the style of your chair's new dress. A heavy material would be inconsistent made up with outstanding ruffles; use instead a box-pleated ruffle that will lie flat, or leave the slip perfectly plain.

First of all, if your chair is one of the "gingerbread" variety with a lot of funny little knobs and projections, take a hand saw and remove them. They are entirely unnecessary and your slip will fit better without their presence. The next step is to make a paper pattern by which to work. Start with the inside back of the chair and seat. If a figured textile is used, remember that the inside back of the chair is the most noticeable part, and the first consideration must be given to adjusting the design of the material to this conspicuous section. The design must likewise be centered on the chair seat. When the sections of the pattern have been satisfactorily fitted to the chair, notch the



THE OLD WAY

"Mrs. David Couturier, of Leelanau county, at a spinning wheel once owned by her grandmother," writes John Belanger, Leelanau county. "Mrs. Couturier is past sixty years of age."

THE FARM HOME

A DEPARTMENT FOR WOMEN
Edited by MRS. ANNIE TAYLOR

DEAR FOLKS: The other day, a prominent doctor made this interesting statement, "If folks would eat a properly balanced diet during the winter months, sulphur and molasses in the spring would no longer be necessary." What is a properly balanced diet is the next question? Well, here is a rough working schedule that will suffice until we have time and space to talk more about it:

Use daily one quart of milk for each child and at least one pint of milk for each adult, with emphasis on whole fresh milk.

Use daily two servings of vegetables in addition to potatoes, with emphasis on spinach, dandelions, turnip tops, chard, string beans, cabbage, lettuce, carrots, and rutabagas.

Use daily two servings of fruit, emphasizing tomatoes, oranges, grapefruit, raspberries, dates, currants, figs, prunes, raisins, and fresh fruits in general.

Use more unrefined than refined cereal products and other seeds, with emphasis on graham flour, rolled oats, entire wheat flour, brown rice, water-ground cornmeal, whole-cereal breakfast foods, green peas, fresh lima beans, dried peas, dried beans, peanuts, walnuts, pecans, and almonds.

Use moderate amounts of meat, eggs, and cheese.

Use moderate amounts of fat, with emphasis on butter, cream, and cod liver oil.

Cut this schedule out and put it in a place of handy reference. Perhaps it may seem to some of our readers that we lay too much stress upon the diet, but what is more important in the daily life of the household than our three square meals a day? Let us see that the food we eat and give our families builds up our bodies and keeps them in good working order as well as fills our stomachs.

Address letters: Mrs. Annie Taylor, care The Business Farmer, Mt. Clemens, Michigan.

seams that require easing. With a crayon or soft pencil, mark the actual seam lines on the pattern while it remains on the chair. Then remove the pattern and trim the edges of it as evenly as possible all the way around. In cutting the material, allow ample room for the cloth to give without straining and tearing when the chair is sat in.

After all sections of the slip cover have been cut and fitted, the sewing begins. The easiest way to make a slip cover is with bound seams, thus eliminating the confusion of turning it in and out. The basted seams are reinforced with machine stitching and then the tape or fold, perhaps of a contrasting color, is stitched in place. Or inside seams may be made, overcast to prevent raveling and pressed flat to make them indistinct on the right side. The slip cover may be finished by an "apron" in front, or by a pleated or ruffled "skirt" all the way around the bottom of the chair. This point must be determined by the style of the chair in question. The back, in one piece, is separated sufficiently at a side seam where it either snaps or buttons together. This allows space for removal without strain.

How to determine the amount of material to be used: Measure width of chair at widest part; this determines the minimum width of material that can be used. Measure inside back of chair from extreme top to seat; add three inches for tuck-in where back joins seat to allow for give-and-take when chair is in use. Measure seat from back to front edge; add three inches for tuck-in at back. Measure inside arm from outer seam, over top, and then downwards inside to seat; add two inches for tuck-in at bottom. Double this measurement for two arms. Measure outside arm from upper seam to floor. Double this measurement also. Measure front apron of chair from front seam to floor. Measure outside back of chair from topmost seam to floor. Measure cushion, if any, for two sides; both sides of cushion covered will double the service. Add sufficient inches for boxing cushion on four sides, if material is not wide enough to supply this amount from side cuttings.

CHILL POPCORN TO MAKE IT POP

If old popcorn won't pop, put it out in the cold for a few hours. If it still refuses to pop, feed it to livestock. Chilling it will make good popcorn break into much larger kernels. Quick expansion of air inside the kernel makes it pop and the quicker the expansion, the nicer the corn will be.

MEAL HOUR HAS SOCIAL VALUE

To make the meal hour a real family gathering, save up the pleasant news of the day to tell at the table. Avoid all unpleasant conversation, criticism or nagging. Encourage a feeling of rest and relaxation, and make this an opportunity for happy companionship.

Personal Column

Beef Tallow.—Will you tell me how to make beef tallow?—M. D., Ingham County. —The method of making beef tallow is very similar to that of rendering lard. The beef tallow which is to be used should be thoroughly cooled out, well washed, then chopped into small pieces, or better still, put through a sausage grinder, and then rendered in a kettle the same as lard.

The best grade of tallow will be obtained by heating for several hours at a comparatively low temperature, that is, below the boiling point, keeping it stirred while heating. After being well melted it should be allowed to settle for a few moments and then some salt added to further facilitate the settling out of the fiber.

Several Songs.—"When You're Old They Bang You on the Head with the Bald-head End;" "Here Rattler, Here!;" "Listen to the Mocking Bird;" "Life's Railroad to Heaven;" "The Little Old Ford Rambled On;" "There is a New Star in Heaven Tonight;" "The Mississippi Flood;" "Bonnie Black Bess;" "There is No Disappointment in Heaven."—H. M., Central Lake.

—if you are well bred!

When you eat dinner at somebody's house, is it "etiquette" to take the last piece of anything?—"Alfred," Mescosta County.

—It is, if it is offered to you. It is quite proper to take the last helping of anything which may be passed to you, if you desire. Not to do so looks as if you doubted the supply.

DO YOU KEEP A SCRAP BOOK?

HOW many "Farm Home" women keep a scrap book of the recipes, meal suggestions, and other household helps that appear on this page? Remember that housekeeping is a business as practical as farming and must have its efficient methods likewise. Buy a composition book, and a pot of paste and begin NOW!

Folks at Our House Like—

(We are starting this little corner so that the families of THE MICHIGAN BUSINESS FARMER can exchange their favorite recipes and food combinations. What special meal or dish do your folks greet with joy when it appears on the table? Write and tell us about it.)

Mince Meat.—This is an old-country recipe brought from Scotland years ago, and has been used for three generations in the same family. Try it; it is delicious. 4 lbs. cooked meat, beef and pork; 8 lbs. apples, cut fine; 1 lb. raisins; 1 lb. currants; ½ lb. citron; 1 qt. boiled cider; 4 lbs. brown sugar; 1 tablespoon cinnamon; 1 tablespoon allspice; 1 teaspoon cloves; 1 teaspoon salt. Boil apples, meat, and cider in 1 qt. meat liquor until nearly done, then add raisins and other ingredients. Boil for 15 min. Can while hot.

For the Movie Fan

Camille.—Norma Talmadge declares that in the title role of this modern version of the famous romance of Alexander Dumas she has given to the world her masterpiece. Certainly it is the best thing she has done to date. And I must not forget to make special mention of the fine work of the young Spanish actor, Gilbert Roland, who plays the part of "Armand," who is the one true lover of "Camille." He looks much like John Gilbert and displays real ability.

"Camille" is a French girl who rises from humble employment in a glove store to undisputed reign over the gayest set of Paris. Many wealthy men love her but she considers all lovers lightly until she meets "Armand."

Favorite Songs

NELLIE GRAY

There's a low green valley on the old Kentucky shore
Where I've whiled many happy hours away.

A-sitting and a-singing by the little cottage door
Where lived my darling, Nellie Gray.

Chorus (1-2)

O, my poor, Nellie Gray, they have taken you away,
And I'll never see my darling any more,
I'm sitting by the river and I'm weeping all the day
For you're gone from the old Kentucky shore.

When the moon had climbed the mountain, and the stars were shining too,
Then I'd take my darling, Nellie Gray,
And we'd float down the river, in my little red canoe
While my banjo sweetly I would play.

My eyes are getting blinded, and I cannot see my way,
Hark! There's somebody knocking at the door,
O, I hear the angels calling and I see my Nellie Gray,
Farewell to the old Kentucky shore.

Chorus (3)

O, My darling, Nellie Gray, up in heaven there they say,
That they'll never take you from me any more
I'm a coming—coming—coming, as the angels clear the way,
Farewell to the old Kentucky shore.



OVER 8,000 PIECES

This quilt, containing over 8,000 pieces, was made by Mrs. Edison Jewell, shown sitting at the left. We are indebted to Mrs. Phil Thomas, of Otsego county, for the picture.

Klever Kiddies

(Every so often one of our children says something that makes us laugh whether we want to or not. If your youngster, or one of your young friends, has said or done anything that appeals to you as being particularly humorous, we will be glad to hear about it and publish it under this head, if it can be used. Let's all help to make this corner a success.)

A little girl went into a large hardware store and had her first elevator ride.

"How did you like it?" asked her father.

"Why, it was so funny, daddy," answered the child. "We went into a little house, and the upstairs came down!"

What To Eat

"Eat lots of vegetables" is the cry of the food specialists, but how tired we grow of always having them served the same way. Here are some new ways of preparing them:

Cabbage, onions and celery, of all vegetables, lose most of their minerals in cooking. For this reason they should be eaten raw or cooked with great care. Cabbage should be boiled a very short time, just long enough to make it tender. Cooking cabbage for an hour leaves it not only brown and unattractive, with a disagreeable and unnatural flavor, but also makes it difficult to digest. If correctly boiled, cabbage is excellent when creamed, scalloped, cooked in rolls or served merely with butter, salt, and pepper. Onions baked in their skins retain their natural flavor as well as their minerals and the greater part of their vitamins. Celery boiled twenty to thirty minutes in very little water is delicious creamed or scalloped.

Carrots.—Very few people like carrots, as they are usually diced and creamed. If prepared this way everyone will ask for more: parboil a bunch of carrots until they are fairly tender, then slice the long way, roll in beaten egg, then in meal, and fry to a delicate brown. Don't boil too tender, as they fall apart before frying.

Escalloped Corn.—In a buttered baking dish alternate layers of canned corn and cracker crumbs, making the last layer of crumbs. Dot with butter, cover with milk and bake until top is nicely browned.

Squaw Dish.—Dice about 3 slices bacon and fry. Add 1 can corn and allow to heat. When this begins to boil, add 2 eggs well beaten and allow to cook slowly until eggs have thickened, stirring constantly.

Casserole of Corn and Peas.—A can each of corn and peas is used for this dish which may serve as the only vegetable of the meal. Put the corn, peas and seasoning in the casserole dish in layers, moistening each layer with left-over canned tomatoes or tomato puree. Corn should make the top layer. Bake for twenty minutes.

Scalloped Vegetables.—To prepare vegetables for quick scalloping, they are cooked, combined with a cream sauce and then alternate layers of the cooked creamed vegetables and bread crumbs are put into a greased dish with a top layer of buttered crumbs. The dish is then put in the oven until the crumbs are brown. Onions, cabbage, potatoes, carrots, or cauliflower, or patoes and onions may be prepared in this way.

Foundation Recipe—Cream Sauce.—Take 3 tablespoons butter, 3 tablespoons flour, 1½ cups milk, ½ teaspoon salt, ¼ teaspoon pepper, and dash of paprika.

Melt the butter in a saucepan, stir in the flour and mix well together; add the milk and seasonings, and cook, stirring constantly until it thickens. Keep in a warm place, preferably in the upper part of a double boiler until it is needed.

Cabbage Salad No. 1.—Shredded cabbage, grated raw carrot, grated onion (small proportion) with cooked or mayonnaise salad dressing.

Cabbage Salad No. 2.—Cut the cabbage in half and let stand in cold water for one hour. Drain and shred very thin with a sharp knife or on a grater. Season with salt, pepper, and one tablespoonful of sugar. Cut two thin slices of rather lean bacon in small squares. Place in a small pan to brown, cool slightly and pour over the cabbage, mixing lightly with two forks. Mix ¼ cup of vinegar and ¼ cup of water and pour over the salad. Either red or white cabbage may be used.

Homespun Yarn

Cooked vegetables will retain their color if boiled in a small amount of water and cooked just until they are done.

Glass stoppers can be kept from sticking by dipping them in melted paraffin before they are replaced in the bottle.

A young mite hatches and is full grown within a week. Protect your poultry flock from this annoyance.

A child should have one quart of milk a day, which may be provided as a drink and in foods.

Adding a little grated rind of lemon or orange to pie crusts gives a delicious flavor to the pastry.

One heaping tablespoon is equal to three level teaspoonsful.

A good family garden should contain a wide variety of vegetables.

Proper food will make a baby's flesh firm, and neither too fat nor too thin.

Aids to Good Dressing

BE SURE TO GIVE SIZE



Girls' Dress.—Cut in 4 sizes: 8, 10, 12, 14 years. A 10 year size requires 2½ yards of 40 inch material together with ¼ yard of contrasting material.

5972.—Misses' Dress.—Cut in 3 sizes: 16, 18 and 20 years. An 18 year size requires 1½ yards of plain material and 1½ yards of checked, or other contrasting material 40 inches wide. The width of the dress at the lower edge is 1½ yards.



5920.—Ladies' Dress.—Cut in 6 sizes: 34, 36, 38, 40, 42 and 44 inches bust measure. A 38 inch size requires 1½ yards of 36 inch lining for the underbody, and 4½ yards of 32 inch material together with 1½ yards of contrasting material. The width of the dress at the lower edge is 2 yards.

5934.—Child's Dress.—Cut in 4 sizes: 2, 4, 6 and 8 years. A 6 year size requires 1½ yards of 40 inch material. To trim as illustrated will require 1½ yards of braid or narrow binding.

ALL PATTERNS 13c EACH—
2 FOR 25c POSTPAID

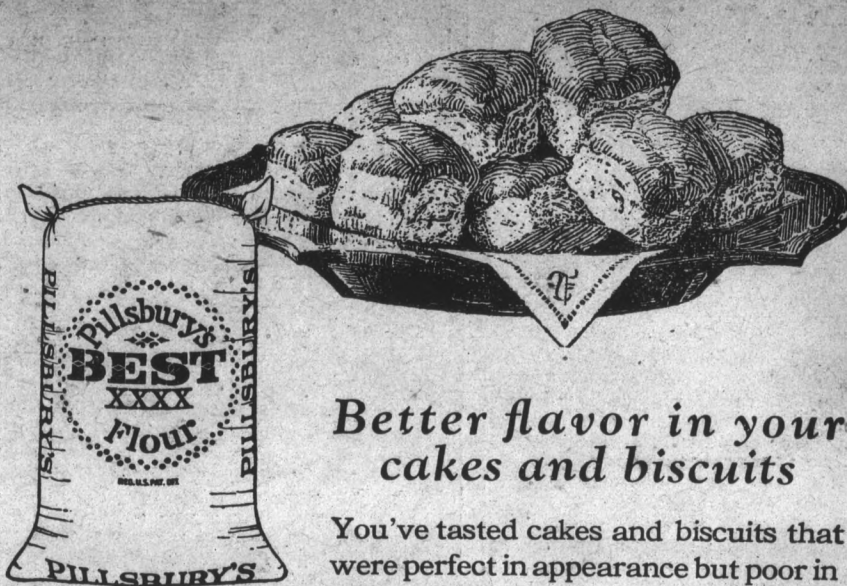
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Mt. Clemens, Mich.



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When winds blow raw and chill and rheumatism tingles in your joints and muscles, rub on good old Musterole.

As Musterole penetrates the skin and goes down to the seat of trouble, you feel a gentle, healing warmth; then cooling, welcome relief.

For croupy colds, sore throat, rheumatism, aches and pains in back and joints, rub on Musterole. Don't wait for trouble; keep a jar or tube handy.

To Mothers: Musterole is also made in milder form for babies and small children. Ask for Children's Musterole.

Jars & Tubes



BETTER THAN A MUSTARD PLASTER

save 1/3 to 1/2



New FREE book quotes Reduced Factory Prices. 5-Year Guarantee Bond on Stoves, Ranges, Furnaces. 200 styles and sizes. Beautiful porcelain enamel ranges and combination gas and coal ranges. Mahogany porcelain enamel heating stoves. Cash or easy terms. 24-hr. shipments. 30-day free trial. 360-day test. Satisfaction guaranteed. 25 years in business. 650,000 customers. Write today for FREE book.

Kalamazoo Stove Co. Manufacturers
671 Rochester Avenue
Kalamazoo, Mich.

\$49.95 up
Ranges
"A Kalamazoo Direct to You"

Home-made Supply of Fine Cough Syrup

Better than ready-made cough syrups, and saves about \$2. Easily prepared.

If you combined the valuable properties of every known "ready-made" cough remedy, you probably could not get as much real healing power as there is in this home-made syrup, easily prepared in a few minutes.

Get from any druggist 2½ ounces of Pinex, pour it into a pint bottle, and fill the bottle with plain granulated sugar syrup, or clarified honey, as desired. The result is a full pint of really better cough syrup than you could buy ready-made for three times the money. Tastes pleasant and never spoils.

This Pinex and Syrup preparation gets right at the cause of a cough and gives almost immediate relief. It loosens the phlegm, stops the throat tickle and heals the irritated membranes so gently and easily that it is really astonishing.

A day's use will usually overcome the ordinary cough and it is splendid for bronchitis, hoarseness and bronchial asthma.

Pinex is a most valuable concentrated compound of genuine Norway pine extract and palatable gualacol, which has been used for generations to break severe coughs.

To avoid disappointment, ask your druggist for "2½ ounces of Pinex" with directions. Guaranteed to give absolute satisfaction or money promptly refunded. The Pinex Co., Ft. Wayne, Ind.

PINEX
for Coughs

Clear Your Skin

Of Disfiguring Blemishes
Use Cuticura

Sample Soap, Ointment, Talcum free. Address: Cuticura Laboratories, Dept. R, Malden, Mass.

FRESH FISH

Largest shippers on Great Lakes. It will pay you to send for our list of Fresh, Frozen, Smoked, Salt and Canned Fish. Season now open.

BADGER FISH CO., Dept. D, Green Bay, Wis.

FOR
COLDS

BAYER

ASPIRIN

To break a cold harmlessly and in a hurry try a Bayer Aspirin tablet. And for headache. The action of Aspirin is very efficient, too, in cases of neuralgia, neuritis, even rheumatism and lumbago! And there's no after effect; doctors give Aspirin to children—often infants. Whenever there's pain, think of Aspirin. The genuine Bayer Aspirin has Bayer on the box and on every tablet. All druggists, with proven directions.

Physicians prescribe Bayer Aspirin;
it does NOT affect the heart

Aspirin is the trade mark of Bayer Manufacture
of Monoaceticacidester of Salicylicacid



Young Children

Rickets or soft bones are evidences
of lime-deficiency. The child needs
emulsified cod-liver oil to help Nature
develop a strong bone-structure.

SCOTT'S EMULSION

should be made a part of the daily
diet of most children. It abounds in
the essential rickets-preventing and
growth-promoting vitamin.

Scott & Bowne, Bloomfield, N. J.

MICHIGAN BUSINESS FARMER
"The Farm Paper of Service"

TELL YOUR FRIENDS ABOUT IT

Cured His Rupture

I was badly ruptured while lifting a trunk several years ago. Doctors said my only hope of cure was an operation. Trusses did me no good. Finally I got hold of something that quickly and completely cured me. Years have passed and the rupture has never returned, although I am doing hard work as a carpenter. There was no operation, no lost time, no trouble. I have nothing to sell, but will give full information about how you may find a complete cure without operation, if you write to me, Eugene M. Pullen, carpenter, 133A Marcellus Avenue, Manassas, N. J. Better cut out this notice and show it to any others who are ruptured—you may save a life or at least stop the misery of rupture and the worry and danger of an operation.—(Adv.)

INTERNATIONAL PAPER COMPANY

New York, December 28th, 1927.
The Board of Directors have declared a quarterly dividend of Sixty (60c) Cents a share on the Common Stock of this Company, payable February 15th, 1928, to Common stockholders of record at the close of business February 1st, 1928.
Checks to be mailed. Transfer books will not close.

OWEN SHEPHERD, Vice President & Treasurer.
We PAY \$48 A WEEK, furnish auto and expenses to introduce our Soap and Washing Powders.
Russ-Bowen Co., Dept. A-64, Chippewa Falls, Wis.

OUR RADIO

By B. K. OSBORN

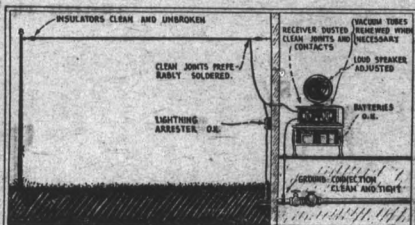
(Any question regarding radio will be gladly answered by our radio editor. You receive a personal letter and there is no charge if your subscription is paid up.)

KILOCYCLES, METERS AND STATION LOG

NOW that you owners of Christmas radios have twisted the dials for a few weeks, unexpectedly picking up stations near and far, you are no doubt ready to settle down to enjoyment of the programs themselves. It is a great convenience to be able to quickly set the dials for a desired station, even before it comes on the air, thus avoiding the "tuning in" operation dear to the hearts of many fans. To be able to so adjust your set, a list or log of the stations with their dial settings is necessary and we are going to tell you how much a list may be most conveniently arranged.

In addition to its call letters, each station has an assigned wavelength or frequency. The wavelength is measured in meters and the frequency in kilocycles. These terms are often said to be confusing, but are really very simple as the following explanation will show.

Radio waves travel outward in all directions from the broadcasting station in somewhat the same way that water waves travel outward from the point where a stone has been dropped into the water. One wavelength is the distance from the



CHECK UP ON YOUR RADIO

This shows the vital points for radio efficiency. If your set is not working just as it should check over these points, and then if it fails to "produce" call the "radio doctor."

crest of one wave to the crest of another and is usually measured in meters. A meter is about 39 inches. Thus you see that a broadcasting wavelength of, say 300 meters, is a very long wave compared with most water waves. Now it is a peculiarity of these radio waves that they always travel with the same speed regardless of their wavelength. This speed is approximately 186,000 miles per second or 300,000,000 meters per second. That is certainly pretty

fast, but let us suppose that we are standing out in the open and that a 300 meter wavelength radio signal is going past us. In one second 300,000,000 (three hundred million) meters of the radio signal will pass by and if each wave is 300 meters long, 1,000,000 wave crests will pass by. The number of wave crests passing a fixed point in a second is called the frequency of the radio wave and the frequency is measured in cycles. Thus the 300 meter wave mentioned above has a frequency of one million cycles per second. In order to save writing some figures, we usually write "kilocycles." Kilo means thousand and just takes the place of three "0's" on the end of any number. Finally, then, the 300 meter wavelength corresponds to 1000 kilocycles, 500 meters to 600 KC, 200 meters to 1500 KC, etc., always dividing the speed of the radio wave by the wavelength to get the frequency or by the frequency to get the wavelength.

Now about that station log. For certain technical reasons the broadcasting stations are spaced just ten kilocycles apart from 550 to 1500 KC. That means that there are 95 broadcasting channels. The ideal station log is a long strip of paper having 95 (or is it 96) lines numbered from 550, 560, 570, etc., up to 1500. On each line there is room for the dial readings and for the call letters of 5 or 6 stations since most of the stations share their channel with several other stations. To prepare such a log, first number the strip of paper. Then look up in the newspaper the frequency (or figure it out if the wavelength is given) of each station which you hear. Put down the call letters of the stations and their dial readings on your set opposite the proper frequencies on your log. You will notice that your dial numbers will steadily increase or decrease as you pass down the log instead of being hit and miss as is the case with the usual list of stations. Now suppose that the Federal Radio Commission changes one of your favorite radio stations to a new frequency. Instead of changing the dial numbers on the log, you will just move the call letters to the new frequency, and the chances are that you will already have dial numbers recorded for this frequency or one near to it and so will be able to find your station at once without hunting for it.

A SMILE OR TWO

SMART BOY

Bobby: "No need of my going to school any more. I know more than teacher does already."

His Dad: "Where did you get that idea?"

Bobby: "Teacher told me herself. She said she couldn't teach me anything."

DOWN ON THE FARM

The doctor was examining country school children and found one youngster several pounds underweight.

"You should drink lots of fresh milk, Sonny," said the doctor.

"Oh, I can't drink any milk," replied the boy, "cause we ain't got hardly enough milk for our hogs."

BEST HE CAN DO

Farmer (rushing into newspaper office): "Say, you folks published an announcement of my death in this week's paper. I ain't dead, an' you've got to contradict it in the next issue."

Editor: "Well, we never contradict anything we have published, so we will have to figure out some way to fix it up. How would it be if I put you in the births column in the next issue and give you a fresh start?"

RIGHT BACK AT HIM

"Say, young man," asked the old lady at the ticket office, "what times does the next train pull in here and how long does it stay?"

"From two to two-two," was the curt reply.

"Well, I declare! Be you the whistle?"

—Exr.

LEFT ENGINE RUNNING

The cat sat beside the stove purring contentedly with eyes closed. Her little mistress, whose father operated a garage, watched her for a few moments and then remarked, "You're parked, kitty—why don't you switch off your engine?"

PROFITABLE MIS-SPELLING

The storekeeper had a card in his window that read "Fishing Tickle." A customer called his attention to the spelling. "Hasn't anyone called your attention to the error?" he asked.

"Hundreds have," replied the storekeeper, "but whenever they drop in to tell me they generally buy something."

THE CAT FAMILY

Mother: "What are you playing with, Johnny?"

Johnny: "Just a caterpillar and a couple of little kittenpillars."

NEW KIND OF CAR

The following advertisement appeared in the San Antonio Express: "Wanted—Man with car that can speak Spanish for collector."

WHEN KNIGHTHOOD WAS IN DISTRESS

Squire: "Did you send for me, my lord?"
Launcelot: "Yes, make haste. Bring the can opener. I've got a flea in my knight clothes."

SHE DIDN'T KEEP A HORSE

"How about some nice horseradish?" said the grocer to the bride.

"Oh, no, indeed! We keep a car." —Exr.



Cultivate with Kovar

It costs just as much in time, labor, and seed to get poor crops as it does to get good ones. It's entirely a matter of proper cultivation. **STUDY KOVAR CONSTRUCTION** Look at the high arched tooth which the center hitch buries into the ground at exactly the right draft. Complete flexibility of frame causes a hinging action on the teeth protecting them against breakage and preventing accumulating of rubbish from the field. Chrome vanadium steel in teeth and high carbon steel in body make an implement without an equal.

Big Success in Michigan

Every year sees more of these sturdy general cultivators and quack grass diggers in use in this state. They are proving to be exactly suited for soil conditions of this state.

Get Full Information

Learn all about this cultivator for your crops' sake. Write distributor or direct to factory now.

W. J. HARDY, Deckerville, Mich.

Distributor

Jos. J. Kovar Co., Owatonna, Minn.

"The Original Quack Grass Digger"

Please send me information of the KOVAR Cultivator.

Name _____

Address _____ State _____

Learn How to Heal Your

RUPTURE

FREE

Ruptured people are amazed at the miraculous results of a simple Home System for rupture that is being sent free to all who write for it. This remarkable invention is one of the greatest blessings ever offered ruptured persons, and is being pronounced the most successful self-treatment ever discovered. It brings instant relief and does away with wearing trusses forever.

Thousands who formerly suffered the tortures of steel trusses are now rejoicing in this freedom from the danger and discomfort of rupture. There is nothing like it anywhere and hosts of ruptured persons are astounded at the ease with which their ruptures are healed.

Free trial treatment of this Muscle Strengthening Preparation are being mailed to all who write. It is an original painless Method. No operation, no danger, no risk, no absence from work or play. Send no money; simply write Capt. W. A. Collings, Inc., 133M Collings Bldg., Watertown, N. Y., for free home treatment with full information and it will be mailed you in sealed package.

Send now—today. It may save wearing a torturing truss for life.—(Adv.)



SAVE THE HORSE

makes horses sound—no big bills—no lost time. Easily applied; money back if it fails—individual signed guarantee. Ends spavin, thorpin, curb, splint, sprained tendon, leg or foot trouble. 36 years a success.

FREE Symptom book illustrated. Tell what's wrong and how to fix it. Half million farmers use it. FREE! Write today!

TROY CHEMICAL CO.

340 State St. Binghamton, N. Y.
Druggists can supply "Save the Horse"—or, we ship direct, postpaid. No substitute will do as much.



FREE CATALOG

tells you how you can save money on Farm Trucks, Wagons and Trailers, also Wheels

—to fit any running gear, or Trailer.

Send for it today.

ELECTRIC WHEEL CO., 72 Elm St., Quincy, Ill.



NEWTON'S Compound
Heaves, Coughs, Conditions, Worms. Most for cost. Two cans satisfactory for Heaves or money back \$1.25 per can. Dealers or by mail. The Newton Remedy Co. Toledo, Ohio.

WHEN WRITING TO ADVERTISERS
PLEASE MENTION
THE MICHIGAN BUSINESS FARMER

Western Tuscola.—Farmers busy cutting wood, doing chores and butchering. Wheat is looking fine since snow went off. Having very mild weather for this time of year. Taxes are the highest ever known. Some farmers paying as high as \$3 per acre. It is beginning to look as though the farmer was getting the short end of the prosperity dollar. Quotations at Vassar: Corn, 80c bu.; oats, 50c bu.; rye, 99c bu.; wheat, \$1.24 bu.; beans, \$5.60 bu.; potatoes, 60c bu.; eggs, 40c doz.; butter, 50c lb.—J. T., Jan. 12.

N. W. Shilawasee.—Not much doing around here except chores; lots of them. Warm and muddy weather now. Heavy fall of snow last week. Could keep busy towing cars and pulling them out of ditches. Hogs so cheap they will not pay for feed costs and labor. Quotations at Elsie: Corn, \$1 bu.; beans, \$5.40 owt.; butter, 50c lb.; eggs, 40c doz.—G. L. P., Jan. 12.

Jan. 12.—Dressed pork at Manistee, 11c. Little movement of produce. Fresh cows in demand. Prices from \$90 to \$120. Apples selling at local markets from \$1 to \$2.00. Quotations at Scottsville: Wheat, No. 2, \$1.14 bu.; oats, 50c bu.; beans, 55c and \$6; potatoes, \$1.10 cwt.; butter, 40c lb.; butter fat, 53c; eggs, 40c doz.—G. P. D., Jan. 6.

St. Joseph.—Farmers busy doing chores and shoveling snow. Very little work being done on account of heavy snow fall. There still remains quite a bit of corn in shock. Wheat looked yellow due to strong zero wind which we had ahead of recent snow. Butchering is mostly completed. About only work to do now is getting year's supply of wood together.—A. J. Y., Jan. 1.

OKLAND.—Not much being done on the farm but cutting wood, and shoveling snow so mail carrier can get through. Quotations from Holly: Wheat, \$1.23 bu.; rye, 80c bu.; oats, 50c bu.; beans, \$5.15 bu.; eggs, 40c doz.; butter, 45c lb.—J. D., Jan. 10.

Missaukee.—We had some very nice weather the last two weeks. Winter seemed to start in earnest Dec. 31 with a snow-storm and turning colder and now we have zero weather. Farmers are cutting and hauling wood, doing chores, etc. A few are planning and getting ready to build new barns next summer. These are fine evenings to catch up on reading or planning for next year.—J. H. Jan. 2.

Kent.—Deep snow of last two weeks helped farmers haul grain to town for grinding or selling. Lots wood being cut. Few auctions. Cattle bring fair prices but other things go pretty cheap. Hogs not much in demand. Corn very poor; some rather soft yet. Oats seem rather light, compared with grains of other years. Prospects of seed corn being dear in spring. Unprofitable cows are going to butcher; feed too dear and scarce.—S. W., Jan. 9.

Saginaw (N. W.).—Had some snow but about all gone. Some roads were drifted but not enough snow for sleighing. Not much doing only chores. Some grain going to market. Not many auction sales. Hens not laying very good. There will not be as many chicks ordered this spring as last. Cows will soon be T. B. tested around here. Quotations at Hemlock: Wheat, \$1.25 bu.; corn, 80c bu.; oats, 49c bu.; rye, 90c bu.; beans, \$5.30 cwt.; potatoes, \$1.75 cwt.; butter, 50c lb.; eggs, 38c to 42c doz.—F. D. Jan. 1.

[illegible]

Alpena.—We are on the job again. First report card of the new year. Weather very mild here at present writing, no snow. Not much produce moving. Potatoes very dull. Large numbers of cattle being wintered. Quotations from Spratt: Wheat, \$1.15 bu.; oats, 50c bu.; rye, 80c bu.; beans, \$5.00 cwt.; butter, 50c lb.; eggs, 40c doz.—R. H. Jan. 9.

eggs, 40c doz.—R. H., Jan. 9.
Emmet.—Farmers doing chores, cutting wood, attending grange meetings, etc. Snow mostly gone, freezing nights and thawing day times. More like March than January. Stock looking good. Lots of hay and no sale to speak of for it. Not much grain. Quotations from Petoskey: Beans, \$5.50 cwt.; butter, 40c lb.; eggs, 50c doz.—R. D., Jan. 9.

East Huron.—Mud again after a very severe storm. Odd lots of damaged beans being moved; some pick more than 20%. Cooking beans for cows and hogs is common practice here. Farmers pay \$20.00 per ton for them at elevator. Horse hides plentiful. Quotations from Bad Axe: Wheat, \$1.21 bu.; oats, 50c bu.; rye, 98c bu.; beans, \$5.50 cwt.; milk, net, \$2.10; barley, \$1.60; brickwheat, \$1.60.—E. R., Jan 8.

Genesee.—The weather has been mild past few days. A great deal of snow has thawed but now there is indications of returning cold weather. Eggs high now but poultry only in light demand. Some marketing of late lambs. Many farmers working at wood. Some farmers' sons are trapping weasels and skunk, the only fur bearing animal that is not protected by a closed season, except the fox. Quotations from Flint: Wheat, \$1.23 bu.; corn, 95c bu.; oats, 50c bu.; rye, 90c bu.; beans, \$.50 cwt potatoes, \$2.10 cwt.; butter, 53c lb.; eggs, 50c doz.—H. E. S. Jan. 9.

Dedance, Ohio.—Old year went out with a slam, new year came in with a bang. Ground covered with sleet. Man and beast could scarcely keep on his feet. Our feed bins and coal bins on decrease. Now the weather is mild. We are poking around in the mud like a naughty child. Quotations at Bryan, Ohio: Wheat, \$1.28 bu.; corn, cert., 75c and \$1.00; oats, 50c bu.; rye, \$1.00 bu.; veal, 14½c; milk, \$2.25; butter fat, 54c; eggs, 38c doz. W. E. B. Jan. 1.

I have been a reader of M. B. F. for the past ten years and will say I would not be without it.—Orin J. Ritter, Clare County.

This table gives the 1927 revised average and production figures for the principal crops in the State of Michigan as issued by Herbert E. Powell, State Commissioner of Agriculture, and Verne H. Church, Agricultural Statistician of the U. S. Department of Agriculture.

Crop	Acreage	Yield Per Acre	Production
Corn	1,418,000	27.5 bus.	38,995,000
Winter Wheat	891,000	21.5 bus.	19,156,000
Spring Wheat	6,000	19.0 bus.	114,000
Oats	1,617,000	33.5 bus.	54,170,000
Barley	186,000	28.5 bus.	5,301,000
Rye	178,000	14.7 bus.	2,617,000
Buckwheat	53,000	13.0 bus.	689,000
Potatoes	289,000	80.0 bus.	23,120,000
Hay, Tame	3,039,000	1.56 tons	4,748,000
Hay, Wild	42,000	1.33 tons	56,000
Clover Seed	97,000	1.6 bus.	155,000
Beans	566,000	9.0 bus.	5,094,000
Sugar Beets	99,000	6.9 tons	688,000
Apples, total		bus.	4,288,000
Apples, Commercial		bbls.	757,000
Peaches		bus.	578,000
Pears		bus.	702,000
Grapes		tons	51,700

The total value of Michigan crops in 1927 is approximately \$230,500,000 compared to \$254,000,000 in 1926—a decrease of about nine per cent. The values are based on the December 1 price and do not represent actual values as no deductions for unmerchable quality have been made. The largest decrease comes from the short potato crop which, in competition with a national crop of more than normal proportions, is bringing a small price. Prices for fruit crops are enough higher so that their total value is greater than last year despite the small crops. The value of the corn, hay, and bean crops is less than in 1926. Wheat and oats show increases, as do also several of the minor crops.

*Better rest the basis of better health in
which your bedspring plays
an important part*

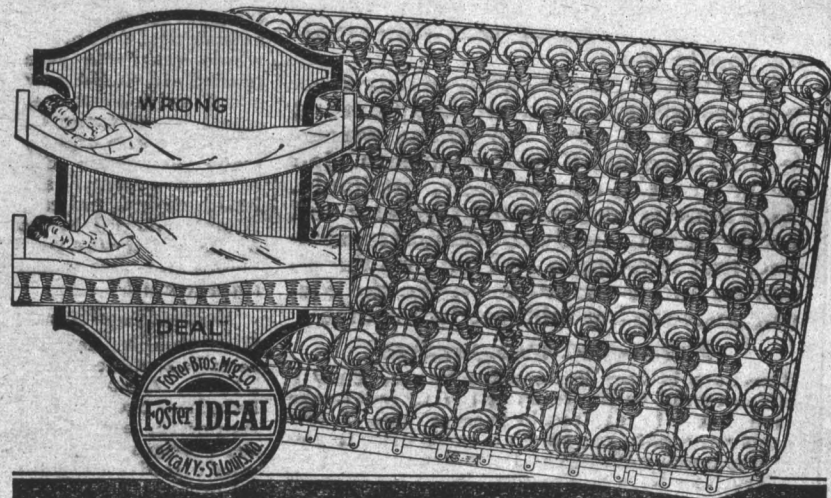
You cannot keep right if you do not sleep right. Nature has ordained that one-third of your life be spent in sleep, and now science confirms this.

Working in a specially-equipped laboratory at a well-known Eastern University, scientists delving into the mysteries of sleep, have developed some interesting facts.

First, that the average normal man or woman requires eight hours of sleep. Second, that the first three hours of this sleep show the greatest amount of input or bodily recuperation, and third, that the bedspring upon which you sleep plays an important part in the quality of sleep that you get.

Comparative tests over a period of time show that the hammock-like spring, or one that drops deeply in the middle, because of the heavy weight of the body at the hips, robs you of your rightful rest. A bedspring too soft and one too hard are also shown to be faulty because neither is conducive to the best quality of sleep, or body support.

By the same tests the Foster Ideal bed-



The symptoms of **HIGH BLOOD PRESSURE**: Headaches, Dizzy Spells, Shortness of Breath, Throbbing Temples.

The cause: Usually IMPURE BLOOD STEAM.
Cleanse the system. Tone up the Stomach, Liver and Bowels by the use of—

BANKS' NEW DISCOVER-EE

BANKS' NEW DISCOVER-EE

A Blood Tonic, Reduces Ulcered Liver, corrects Acid Stomach, Constipation, Rheumatism and kindred diseases.

are compounded from fresh **Roots, Herbs and Barks Only**. Free from Narcotics kind.

Palpitation of the Heart, Insomnia, Nervous Prostration—
TRY BANKS' "FIVE IN ONE" — NAME TALKS

neighbors can testify to the splendid results obtained from these remedies.

BANKS & NEAL MEDICINE CO., Ltd.

assee St., Dept. M. B. F., Lansing, Michigan

20 POWER USES

FOR Your Ford

Runs directly off crank shaft. No ride pull on bearings. Oil tight case; no rattle; clutch disconnects when driving. **Write for Special Offer!**

Powerful, economical— from wood saw to churn. Makes car easy to crank. Fits any model; no holes to drill; ratsch in few minutes; does not affect steering. **Will not overheat.**

FREE Send name today for free literature on this latest, guaranteed improved power. Try it 15 days on your Ford at our risk.

E-Z POWER MFG. CO., Box 71, Atchison, Kansas

Ship Your Dressed Calves and Live Poultry

to
**Detroit Beef
Company**

OLDEST AND MOST RELIABLE
COMMISSION HOUSE IN DETROIT

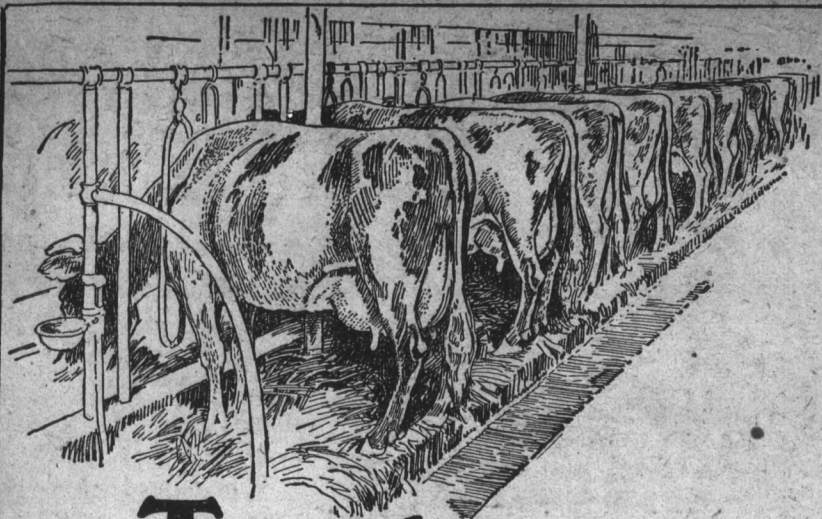
Write for new shippers Guide

shipping tags and Quotations.

Detroit Beef Co.

1903 Adelaide St., Detroit, Mich.

THE ADVERTISEMENTS are your guide to good things. Whatever you need, there is an advertisement in these pages that will take you to it—just the kind you want. When writing advertisers say you saw their ad in **THE BUSINESS FARMER**. You'll help us and help yourself.



Test = this winter— feeding program

With freezing weather come special problems in the dairy barn. To keep winter's thieving fingers out of the milk pails your cows demand plenty of the right kind of food. They just as urgently demand that their vigor be built up and maintained so that this rich, dry diet can be completely assimilated—turned into milk. Otherwise part of your high-priced winter feeding goes to waste.

This winter join the army of dairymen who are now systematically conditioning their cows to meet the added winter-feeding burdens. Kow-Kare does this job for you surely, conveniently, profitably. This famous concentrated regulator and conditioner has active medicinal ingredients that strengthen and tone up the digestion and assimilation—make the cow responsive to her milk-producing diet.

Sure—and Inexpensive

Kow-Kare is very inexpensive to use. Only a tablespoonful in the feedings one to two weeks each month is required in average cases. A few cents per month per cow is a small price to pay for top-notch milkings and cow health.

Try Kow-Kare one season. Prove for yourself that vigorous cows can produce real milk profits on moderate-priced natural feeds. Kow-Kare is obtainable from nearly all feed stores, general stores and druggists. Large size \$1.25; 6 cans \$6.25. Small size 65c. Write for free illustrated book, "More Milk from the Cows You Have."

Dairy Association Co., Inc.
Lyndonville, Vermont

KOW-KARE

Regulates and Conditions

Home-Mix Your Own COMPLETE MINERAL
With Kow-Kare you can easily mix your own complete mineral at a surprisingly low cost—a mixture of recognized conditioning value. Simply mix 30 lbs. salt, 30 lbs. fine-ground lime, 30 lbs. steamed bone meal and four cans (large) Kow-Kare. For well under \$6 per hundred you will have an unbeatable mineral. Use 80 lbs. of this mixture to a ton of grain.



Needed by cows at CALVING

It's good sense—at this most critical time of the whole year—to give needed aid to the cow about to freshen. A small investment in Kow-Kare gets you by many expensive disorders—insures a healthier cow and calf. A tablespoonful in the feedings for three weeks before and after meets average needs.

Banish Cow Ills

Such troubles as Barenness, Retained Afterbirth, Abortion, Bunches, Scours, Lost Appetite, etc., have their origin in weakened digestive and genital organs. Kow-Kare clears up these troubles by helping Nature. Thirty years of successful use is your Kow-Kare guarantee.

DAIRY AND LIVESTOCK

(We invite you to contribute your experience in raising livestock to this department. Questions cheerfully answered.)

BURNETT SUCCEEDS NORTON

M. S. C. suffered a severe loss when J. E. Burnett resigned as associate professor of dairy husbandry to accept the position of director of animal industry in the State Department of Agriculture. H. W. Norton, Jr., former head of the work resigned to go with the Holstein-Friesian Association of America as superintendent of advanced registry. In his work at the college Professor Burnett built up a following that will welcome his appointment to this office.



J. E. Burnett

ANNUAL MEET STATE HOLSTEIN ASSOCIATION

MONDAY, January 30th, 1928, is the date set for the twenty-eighth annual meeting of the Michigan Holstein-Friesian Association. The general set-up is: meeting, afternoon in the Agricultural Building, State College; banquet, evening at the People's Church, East Lansing.

M. S. Prescott of Lacona, New York, Editor of "The Holstein-Friesian World" will be on the afternoon program, talking on "The Holstein Industry for 1928." Earl J. Cooper, Director of the Extension Service of the National Holstein Association will assist at the business session slated for the afternoon. The banquet program festivities are shrouded in mystery. Everyone interested in Holsteins is invited to the doings whether he is a member of the State Holstein Association or not. —J. G. Hays, Secretary.

COW TESTERS MEET DURING FARMERS' WEEK

TESTERS of the Michigan dairy herd improvement associations are planning to meet for their annual conference during Farmers' Week on January 30. The review of the activities during the past year and plans for special activities during 1928 will be presented at this conference according to A. C. Baltzer, in charge of Michigan dairy herd improvement associations.

All testers of lower Michigan are expected to attend the conference and also the dairy meetings that the Holstein, Guernsey, and Jersey breeders are holding on this same day.

Announcements will be made during the conference about the essay contest winners. This contest among Michigan testers dealing with their accomplishments during the past year has been an annual event and is rewarded by a prize of \$100.00 cash put up by the Michigan Creamery Owners and Managers Association.

The program on Monday will be held in Room 109 of the Agricultural Building and will be as follows: 10:30 A. M., "Testing Rules for Holstein-Friesian Herd Improvement Registry," by Geo. Taylor, Dairy Department, M. S. C.; 11:00 A. M., "The Dairy Outlook in Michigan," by Prof. O. E. Reed, Dairy Department Head, M. S. C.; 1:30 P. M., "The Herd Improvement Association and the County Agricultural Agent,"

W. E. McCarthy, Bay County Agent; 2:00 P. M., "Dairy Cooperation for the Bureau of Dairying, U. S. D. A.," by J. H. McClain and J. B. Parker, from Washington, D. C.; 3:30 P. M., announcements and summary, by A. C. Baltzer.

On Tuesday there will be a round table conference with A. C. Baltzer, R. H. Addy, Geo. Girrbach and Russell Horwood in the extension office in the Dairy Building.

ANNOUNCE REWARD FOR TESTER

THE Michigan Association of Creamery Owners and Managers through their Secretary, K. L. McKinnon, Flint, Michigan, announce that a One Hundred Dollar award will be made to the successful Michigan cow testers, who tell about their accomplishments made during 1927 on farms of members of Dairy Herd Improvement Associations.

This is the fourth year that this award is made according to A. C. Baltzer in charge of Dairy Herd Improvement Associations, Michigan State College. The purpose of the award is to stimulate cow testers to write down the definite improvements that they know were made on Michigan dairy farms in quantity production of dairy products, in feeding, breeding and weeding of the dairy herd.

The essays will be judged previous to the cow testers' annual conference at East Lansing, January 30. Awards to the six best cow testers will be made known during this conference.

FOOD VALUE OF POTATOES

I am writing in regard to feeding small potatoes to horses and cows. Are they of any value? If so, how should they be fed, cooked or raw, to get the most food value out of them. Are they any good for hog feed? —W. S. Bellaire, Mich.

POTATOES have their greatest value when cooked and fed to hogs. When cooked and fed to swine around 450 pounds of potatoes are required to replace 100 pounds of grain. It should be remembered that potatoes are strictly carbonaceous feed and should be fed in combination with some feeds containing considerable protein. For cattle, from 20 to 30 pounds of raw potatoes may be fed per head daily. Horses should not be fed over 10 to 15 pounds per head daily.

Fed in moderate quantities, potatoes and other roots have considerable value as a succulent feed and it is safe to say that a pound of dry matter in potatoes or other root crops is equal to a pound of dry matter in grain provided the roots are not fed to excess. —Geo. A. Brown, Prof. of Animal Husbandry, M. S. C.

MAY RAISE LAMBS BY DRY-LOT METHOD

SOME breeders of purebred sheep raise lambs by the dry-lot method, mainly to avoid stomach worm trouble. The lambs do not leave the sheds or yards until they are weaned, when they are put on clean, fresh pastures. In the meantime they are fed hay and grain and their dams are returned from the pastures two or three times each day to allow the lambs to nurse.

TEN SEPARATOR IFS

1. If the valve on the supply tank is not open wide the separator will be underfed, and a small amount of high-testing cream will result.
2. If the milk is cold the cream will be too thick to flow readily, and a small amount of rich cream results.
3. If the separator is dirty and the cream outlet partly clogged, a small amount of rich cream results.
4. If the crank is not turned steadily or at the rated speed, a larger amount of thin cream results and cream is lost in the separation.
5. If the flush water or skim milk is allowed to run into the cream, the test will be lowered.
6. If the separator is not clean, the cream will be of low grade and quality.
7. If your cream test varies from day to day, it is partly due to the natural variation of the fat content of the milk.
8. If the separator is set for rich cream, the above conditions will cause a greater variation in the test than if set for thin cream.
9. If the creamery tests vary, check up on the separator and method of operation before blaming the tester.
10. If the cream is to be sold to a creamery, set the separator to give cream testing 30 to 40 per cent of fat.

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VETERINARY DEPARTMENT

Edited by DR. GEO. H. CONN

(Questions gladly answered free for paid-up subscribers. You receive a personal letter.)

TUBERCULAR CATTLE

Would it be safe to raise calves that were from a bull that reacted to the T. B. test? Also, how about calves sucking tubercular cows?—“Interested,” Holly, Mich.

THERE is no danger in keeping calves sired by a bull that has reacted to the tuberculin test; do not keep a calf that has at any time sucked a tubercular cow; they usually react some later time and then you are keeping the infection in your herd. It seems that those who have tried to raise calves from tubercular cows have had just such results. Do not bring any cattle into your herd from any of these reacting herds for you will probably regret it if you do.

GOITER

What is the cause of goiter or big neck in calves? Would painting with iodine or giving calves iodine cure it?—E. B., Kalkaska, Mich.

THIS goiter or big neck in calves is caused by the cows not getting enough iodine while carrying their young; paint these with iodine two or three times each week. Have your druggist fix you up some potassium iodide in some chalk so that they will get 10 grain dose twice each day and you will find in a short time they will be gone. This can be mixed with their feed. You should get some iodized salt for your cows or else you should get a mineral with iodine in it or some of your calves will die at birth.

PIGS HAVE RICKETS

I have some twelve weeks old shoats and lost two of them. They got lame in their hind legs, then laid down, seemed a little feverish and in a few days died. We have been feeding ground rye, skimmed milk and some corn.—Mrs. S., Hesperia, Mich.

YOUR pigs have rickets; get some tankage and in each 100 pounds add 15 pounds of bonemeal. Then give these 10 pigs about 6 or 7 pounds of this night and morning in some milk. Also give these pigs ½ pint of cod liver oil night and morning for a few days in this feed. Do not feed very much corn but using middlings or shorts will be better for a while.

NO CURE FOR HEAVES

Could you give me any remedy for heaves that have just started? Also a cure for a cough for a horse? We have a horse that ran a rusty nail in his foot. Could you give me any advice as to what to do for it?—W. G., Tyre, Mich.

THERE is nothing that will cure heaves; do not feed much hay at any time but more at night than in the morning. Make up some lime water and sprinkle the hay with it before feeding; make this by throwing a handful of lime in a pail of water and stirring it up.

You will find that a tablespoonful

of fowlers solution of arsenic given night and morning on the feed for not longer than 30 days is very good for coughs.

When a horse has a rusty nail in its foot a veterinarian should be called and should give it a protective dose of serum to prevent lock jaw.

The Experience Pool

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

SNAILS IN CELERY

DEAR EDITOR: I am writing to have you inquire through your paper if anyone has been troubled with snails in cabbage and celery. They ruined my celery this last year. If anyone else has had the same trouble, will they state the remedy? I shall be very much obliged for the information. We like M. B. F. very much.—W. H., Camden, Mich.

REMEDY FOR WORMS

DEAR EDITOR:—I read I think in your paper a remedy for worms in poultry. Years ago I had a large flock of grown turkeys in the fall not doing well. I was told to take one teaspoonful of sulphuric acid put it in a large candy pail of water and let them drink it. One dose was not enough. I never saw so many worms. There were dozens of tape worms, the pipe like piece with worm and nest. It made the chickens thirsty, and as soon as I released them they rushed to horse tank and drank but it did not hurt them. They soon picked up. I only kept them in about three hours in the morning.

I also read of some one being bothered with light colored egg yolks in winter. I am never bothered. My hens lay quite heavy all winter and even all the year. I raise carrots and golden tankards for them and most of the time I boil them for the hens each day as they waste a lot of tough pieces if raw. I save all cabbage, brussels sprouts and all garden stuff and feed them some each day along with their mash. It lasts mostly all winter, then I sprout oats and have plenty of eggs.—Mrs. H. B., Decatur, Michigan.

I am a reader of M. B. F. Think it O. K. Would not be without this paper. It also has done a lot for the poultry raisers.—Hallie Dalgord, Delta County.

My wife and I always look forward to our copies of M. B. F., and will say that we always abide by what it says.—Frank Armfield, Berrien County.

I like THE BUSINESS FARMER fine. Don't think it could be any better.—Mrs. Fred McDonald, Manistee County.



TWIN JERSEYS

This is D. L. Olds, of Osceola county, with twin Jerseys, one a bull and the other a heifer, that he owns. "I understand only about eight per cent of such twins turn out breeders, and both of these have proven breeders," writes Mr. Olds. "Their dam is a 51-lb. milker." Speaking of his M. B. F., he writes, "Would miss M. B. F. if it were to stop coming, so am enclosing renewal for three years."



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Milks Cows Like No Other Machine Ever Milked Cows Before

At last something really new in machine milking history! The wonderful new SURGE Milker!

A machine that is making records for Breeders who never dared use a machine before. A machine that produces low count, premium priced milk—and does it with no more work than you now give to washing milk pails. The Surge is sweeping everything before it!

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Please send me without cost or obligation, Free Surge Catalog and tell me all about your special Free Demonstration Offer on the SURGE Milker. (Please give this information)

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BREEDERS' DIRECTORY

Ads under this heading 30c per agate line for 4 lines or more. \$1.00 per :: insertion for 3 lines or less. ::

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.

CATTLE

HOLSTEINS

Ormsby—Bess Burke—Fobes

We are now in position to offer bulls of the popular Ormsby-Bess-Burke-Fobes combination of blood lines.

These calves are sired by Marathon Bess Burke 32nd, a son of the famous cow Wisconsin Fobes 6th, or Sir Bess Ormsby Fobes 50th, a son of her illustrious full brother, Sir Bess Ormsby Fobes.

These two sires are in service in the Traverse City State Hospital herd and their calves show excellent quality.

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FOR SALE—PURE BRED HOLSTEIN HEIFER and bull calves, shipped C. O. D. at farmers' prices. Best blood lines in America. Write your wants. MAPLE LAWN FARMS, Cortland, N. Y.

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CALVES, YEARLINGS AND TWOS: HEREFORD STEERS AND HEIFERS
Beef type, dark reds, good grass flesh, most all bunches dehorned, each bunch even in size and show good breeding. Choice Herefords are usually market toppers when finished. Few bunches T. B. Tested. Will sell your choice from any bunch. State number and weight you prefer. 450 to 1000 lbs.
V. V. BALDWIN, Eldon, Wapello Co., Iowa.

GUERNSEYS

GUERNSEY DAIRY CALVES, BOTH SEXES, practically pure bred. Shipped C. O. D. LAKEWOOD FARMS, Whitewater, Wis.

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FOR SALE—ONE ROAN BULL 10 MONTHS old. Sired by Royal Peer 21473, Junior Champion at Indianapolis, Ind., 1919. Dam Mamie Sultan 14439, daughter of Roselawn Hetty, Grand Champion of Michigan, 1919. High class cattle priced reasonable. GEORGE E. BURDICK, Mgr., Branch County Farm, Coldwater, Mich.

BROWN SWISS

FIVE REGISTERED BROWN SWISS FEMALES and one young bull for sale. Accredited since 1920. ERWIN H. KRAUSS & SONS, Sebawaing, Mich.

SWINE

BIG TYPE BERKSHIRE SOWS AND GILTS, out of Champion stock, bred for March, April and May farrowing. Price very reasonable. COREY FARMS, New Haven, Mich.

REGISTERED HAMPSHIRE SPRING BOARS FOR SALE AT A BARGAIN. JOHN W. SNYDER, St. Johns, Mich., R. 4

REGISTERED DUDOC JERSEY PIGS FOR sale, July farrow. Either sex, \$15 each P. O. B. Millersburg. Dewey Hartley, Millersburg, Mich.

LARGE TYPE O. I. C. BOARS READY FOR service. Bred Sows and Sept. pigs, Reg. free. GLENWOOD FARM, Zeeland, Mich.

PURE BRED O. I. C. SERVICE BOARS AND open gilts for sale. J. R. VAN ETTEN, Clifflord, Michigan

SHEEP

ONE REGISTERED YEARLING LEICESTER ram for sale. Price Reasonable. COREY FARMS, New Haven, Michigan.

REGISTERED OXFORD DOWN EWES FOR sale. Write for particulars. W. J. ENGLAND, Caro, (Tuscola County) Michigan.

FOR SALE—25 REGISTERED SHROPSHIRE ewes. Bred to lamb in February and March. E. F. GOODFELLOW, Ovid, Mich., Phone 48-5

HORSES

FISTULA-HORSES CURED, \$5.00. SEND COAN CHEMICAL CO., Barnes, Kansas

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If we can be of service do not hesitate to write in. Advice costs you nothing if you are a paid-up subscriber.

—The Business Farmer,
Mount Clemens, Michigan



STOP THIEF!

The Business Farmer Shows Way To Stop Chicken Stealing

CHICKEN THIEVES are taking a million dollars a year out of the pockets of the farmers of Michigan! We are going to do all we can to stop these thieves and want to know if you are going to work with us. In fact, you must work with us if this campaign is to be a success.

Knowing that our rewards can not entirely solve the problem we have given much thought to it and now recommend the following things be done:

1. Put good locks on the doors of all buildings and either bar windows or fasten them shut.
2. Install burglar alarms.
3. Mark poultry with an identifying mark which is registered with poultry dealers, sheriffs, and The Business Farmer Protective Service Bureau.
4. Organize county-wide anti-thief associations.
5. Learn to shoot, and do not hesitate to do so when necessary.
6. Enforce poultry dealers' registration law.

UP TO YOU

These things are what you must do to protect your property! Locks can be bought at any good hardware store. Burglar alarms can be made by anyone who is at all handy and we will gladly furnish free of charge plans and instructions for both the silent and gong type alarms.

THE GONG ALARM

We recommend the gong type burglar alarm which is installed inside the poultry house and makes a lot of noise when released. It is a thief scarer rather than a thief catcher because Mr. Thief will run right out from under his hat when it goes off. Being all inside the coop the thief can not disconnect it so that it will continue to ring until turned off by the owner. If you do not care to make one we will sell you a complete outfit, ready to install, for \$6.50—the bare cost of manufacturing and shipping.

OUR POULTRY MARKER

There are many poultry markers being sold to the public but none of them seem to be entirely satisfactory. Also we found most of them too high in price for the average farmer. So we got in touch with a Chicago manufacturer who guaranteed to make the kind of marker we had in mind, putting a different number on each one so that no two farmers would have the same mark, supply enough special prepared ink to mark a hundred chickens and pay mailing charges to the door of the purchaser for \$1.50 each. We accepted his offer and are selling these at just what they cost us, because we want to serve our readers in every way possible. **THE BUSINESS FARMER'S Poultry Marker** can be bought only through us as we have the exclusive right to sell it in Michigan.

If you purchase a **BUSINESS FARMER Poultry Marker** you get a mark—the initials "MBF" combined with a number—which is sold exclusively to you, so that no one else will have poultry marked like yours. It is a simple operation to apply the identifying mark on the web of the fowl's wing and it lasts for the life of the bird. We keep a record of all the markers we sell and supply this record to all poultry dealers and sheriffs in Michigan as well as chiefs of police in the larger cities. Then when a dealer is offered any poultry he can determine at once if it is the rightful owner who is selling it. If it isn't and the party cannot produce a bill of sale from the rightful owner then the dealer can have him arrested and charged with stealing. That means that thieves are going to be careful about taking marked poultry. Order your marker **TODAY** before your coop is visited. It doesn't pay to lock the barn after the horse is stolen you know.

BUSINESS FARMER'S POULTRY MARKER AND GONG ALARM

TO help the farmers of Michigan protect their property from thieves we have arranged to furnish them with **BUSINESS FARMER Poultry Markers** (these can be used for other livestock) and burglar alarms of the gong-type at cost. The marker costs \$1.50, including enough special indelible ink for 100 birds, and full instructions on how to use. Extra ink is sold at 35c for 100 birds, 65c for 250 birds, and \$1.00 for 500 birds. The cost of the gong alarm is \$6.50.

Remember, your name and the number of your marker will be registered with poultry dealers and sheriffs in Michigan.

ORDER BLANK

The Business Farmer Protective Service Bureau,
Mt. Clemens, Michigan.

Kindly send to me the following with complete directions for use. I agree to mark all my poultry with **Business Farmer's Poultry Marker** and will not sell or transfer this marker or allow it to be used except on my poultry or livestock.

.....Business Farmer Poultry Markers @ \$1.50 each.....

.....Extra Ink (100 birds, 35c; 250 birds, 65c; 500 birds, \$1).....

.....Gong-type Burglar Alarms @ \$6.50, each, postpaid.....
(Batteries not included. Three dry cells needed.)

I am including my check or money order for.....

Name.....

Address.....

Number of chickens and other poultry.....

FIGHT AGAINST CORN BORER TO BE CARRIED ON VIGOROUSLY

(Continued from Page 3)

there. G. A. Dean, head of the department of entomology, Kansas State Agricultural College, chairman of the joint committee of entomologists, agronomists and agriculture engineers, presented the report of that committee, urging a greater research program and the continuance of the present policy of clean-up and quarantine.

Secretary of Agriculture Jardine has announced a revision of the European corn borer quarantine, effective January 1, 1928, which makes extensive additions to the areas regulated on account of this pest. The newly quarantined territory, in which infestations were discovered during the summer and fall of this year, consists of seven hundred and eighty-one townships in Vermont, western Massachusetts, New York, New Jersey, Pennsylvania, Ohio, Indiana, and Michigan.

The corn borer is now known to exist in 13 states, namely, Massachusetts, New Hampshire, Maine, Rhode Island, Connecticut, Vermont, New York, New Jersey, Pennsylvania, West Virginia, Ohio, Michigan, and Indiana.

The quarantined area in Michigan includes parts of St. Joseph, Midland and Kalamazoo counties, all of Barry, Eaton, Clinton and Saginaw counties, and all the territory east of these counties, as well as parts of all other counties bordering on Lake Huron.

BROADSCOPE FARM NEWS AND VIEWS

(Continued from page 8)

ment. We call our personal outlay for maintenance expense—but the outlay for government maintenance we call tax. We can't maintain a home and family in 1928 at an expense which would have been ample in 1908. If it costs more to run our homes today, it is logical to conclude it must cost more to run our government. The home and family life is said to have been improved. We have discarded some rather commonplace things for those more expensive. The government finds itself in the same condition. Our schools are a part of our government expense, and we have pretty much all of their control in our own hands. If we tried to run a school in 1928 as cheaply as we did in 1908, we would have no school at all. If our Board of Supervisors tried to run the court house, the county farm, etc., as cheaply as they did in 1908, we, the dear people, would be ashamed of our county buildings, etc. We would elect an up-to-date board of supervisors at the very next election.

Perhaps some expenses could be cut and still have a pretty good government. So could some of our home expenses, but we don't want to cut them. We would, if everyone else would, but everyone else must begin first. So perhaps there is a cause for taxes being high, but I do not believe the assessment of property values is altogether an equitable one. There is chance for vast improvement in the equalizing of property values in city and farming districts.

CHATTING WITH THE AGRICULTURAL TEACHER

(Continued from Page 13)

must be stained one per cent violet. Remember the colors, and remember red seeds are as dangerous to your crop as the hired man with a red shirt leading a bull to water.

When I purchase seed for Spring Water Farm I always secure home grown seed if possible. Then I know it is adapted and will grow in my community.

* * *

Mineral Feed for Cow

We are studying feeds and feeding in my Animal Industry Class at this time and the question came up: What is the proper mineral feed for the dairy cow? This is a good question and I'd like to hear from some one who knows more about it than I do. When a cow gives milk in the winter and is off of pasture she must have minerals of some kind in her ration. Of course there are plenty of minerals on the market but I believe they are too high in price. I used to feed 75 pounds of steamed

bone meal and 25 pounds of salt as minerals to feed my cattle on Spring Water Farm, but for the last several months now I have changed to equal parts of steamed bone meal, finely ground limestone and salt. I believe we are going to like this better but I haven't had enough experience with it as yet to determine. For this reason I answered the question with the first mixture, but maybe I'll change my mind in another year. These minerals may be mixed with the regular feed, two-third pounds to 100 pounds of feed, or put in a self-feeder in the barnyard.

GARDEN SOIL

(Continued from page 17)

crops which clear the ground early such as peas, spinach, early cabbage, etc., from one place to another in the garden, and sowing catch crops of rye after them. This is supplemented by an application of commercial fertilizer. It is not advisable to use manure too excessively as I am of the opinion that overmanuring is often the cause of partial failure in our farm gardens, due to its tendency to produce a rank growth of top or vine at the expense of fruit, pod and root production in certain groups.

Fresh manure regardless of its composition is never satisfactory as a garden fertilizer, notwithstanding the danger of sowing the garden to weeds sometimes contained in fresh straw manure. Well rotted manure and moderate applications of commercial fertilizer is the ideal garden fertilizer.

Clay soil should be plowed in the fall to enable the action of frost to render it loose and friable while sand soils inclined to wash are sometimes best plowed in spring.

USE CHOKE FOR WINTER DRIVING

DON'T be afraid to use your choke—but know how to use it. To start a cold engine use full choke for a short period rather than partial choke for a longer period—it saves your battery and permits a quicker start.

Use just enough choke to keep the engine firing evenly while warming up—too little causes uneven running, fouled spark plugs and crankcase dilution. Too much will flood your engine and make it stop. Don't fail to keep the choke closed after the engine is running smoothly.

In extremely cold weather, back out of the garage into the open air, let the motor idle for a few minutes, or run for a block or so in second gear before shifting to high. If you start to stall, shift back to second, put on full choke for an instant until the engine picks up, then only enough choke to keep it running. A motor operates at maximum efficiency when its temperature is around 160 degrees fahrenheit.

Another essential rule to always observe in starting, is to disengage your clutch, and be sure no lights are on. By disengaging the clutch the strain on the battery is reduced at least 25 per cent.

Don't race a cold engine and don't start it until the garage doors are wide open, because of the danger of carbon monoxide.

These suggestions will save both your temper and your car.—David Gregg.

HAVE STABLES WELL VENTILATED

DAIRY cows need 59 cubic feet of fresh air a minute to produce the most milk and to keep healthy. During cold weather the air must enter so that it does not cause drafts. When stables are poorly ventilated the moist air will condense on the walls and ceiling and make them warp and rot.

I subscribed for your magazine last year in a club offer and I am so well pleased I want the M. B. F. to keep coming. I would miss its wise council and interesting items.—Mrs. Ada L. Miller, Allegan County.

A NEW OIL LAMP FREE Burns 94% Air

H. P. Johnson, 609 W. Lake St., Chicago, Ill., the inventor of a wonderful new oil lamp that burns 94% air and beats gas or electricity, is offering to give one free to the first user in each locality who will help introduce it. Write him for particulars. Agents wanted.—(Adv.)

Let this famous Ointment guard the Udder and Teats



Don't allow quart after quart of milk to be held back by your cows because of some discomfort of the udder or teats. Go after the extra quarts by giving constant care to even the "little" hurts of these tender tissues.

Bag Balm has wonderful healing power, remarkable ability to penetrate and restore the injured parts that make cows nervous and hard to milk. For all chaps, cracked teats, teats stepped on, inflammation of the udder, caked bag, bunches, cow pox, etc., Bag Balm brings relief with the first application. Complete healing is quickly brought about.

Bag Balm is sanitary, clean, pleasant to use, and cannot taint the milk. Big 10-ounce package, only 60c and goes a long way. At feed dealers, general stores and druggists. Mailed postpaid if hard to obtain locally. Valuable booklet, "Dairy Wrinkles" sent free.

Dairy Association Co., Inc.
Lyndonville, Vermont



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If you want to save money feed



Blatchford's Calf Meal
ESTABLISHED IN 1800
"Good to the last drop"

Special Factory Single Cash Trial Bag Offer!
50 lb. Bag \$2.40
100 lb. Bag \$4.75
These prices f. o. b. factory only

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Dealer Distribution Wanted
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1 year to pay after 30-day trial

American CREAM SEPARATOR
Brand new models, vastly improved. Unexcelled by any in World for close skimming, easy turning and convenience. Quick cleaning Bowl is Sanitary marvel. Skims warm or cold milk. Makes thick or thin cream perfectly. Seven sizes, from 550 lb. to one-cow size. PROMPT SHIPMENT FROM POINT NEAR YOU. Factory prices as low as \$24.95. Easy Monthly Payments low as \$2.20. Write for FREE Catalog. Tells about our sensational money saving offer; our low prices, free servicing and new models. Write for it TODAY.
American Separator Co.
Box 26J, Bainbridge, N. Y., or
Box 26J, 1929 W. 43rd St., Chicago, Ill.

Let's Hear From You

We want you to write us your criticisms and suggestions about M. B. F. to help us make it better in every way. It is your farm paper and the editors are your hired men.
The Business Farmer, Mt. Clemens, Mich.



Claude's Berkshire boar was Reserve Grand Champion at the 1927 Michigan State Fair.

MICHIGAN CLUB BOY MAKES GOOD WITH BERKSHIRES

BACK in 1926 some of the boys in our community decided that they wanted to try some Berkshires in the pig club. The Chester White club had left nothing to be conquered as far as their field was concerned in state competition. In four years, they had produced three open class Junior Champions at the Michigan State Fair and were feeling pretty good. Some of the boys had a preference for Berkshires although they had raised Chesters.

Claude Mitchell is the boy I wish to tell you about, who first started with Chesters, but now has a fine herd of registered Berkshires, and by the way, the best in his County. Some distinction for an eighteen year old boy.

Mr. Campbell, the club leader, purchased the foundation stock for this boy from E. J. Barker of Thornton, Indiana, in 1926. Correspondence was by letter only which showed the confidence placed in this judge and lover of good Berkshires. Our faith was rewarded for the seed stock purchased at this time was good enough to pay for itself in the show ring that fall. The five gilts and one boar purchased at that time made a total of over \$150, clear of all expenses. The gilts won everything in the pig club and two were placed in the open class. The boar placed first in the pig club and third in the open competition. In the group classes they placed fourth produce of dam, third get of sire, and second breeders young herd.

Claude showed the boar and one of the gilts that were placed in open competition. This year three gilts were purchased from Mr. Barker for the Berkshire club and Claude drew one of them. These gilts with last year's pigs were exhibited at the Michigan State Fair and succeeded in furnishing some excitement in the open class. The boar, now a Junior yearling was Reserve Grand Champion of the show. This boar's get won the blue ribbon in the Michigan Futurity against the get of the grand champion at the last year's International, in the open class the get was defeated by a senior quartet. In the futurity one of the gilts purchased from Mr. Barker placed first and one gilt and two of the boars bred by Claude placed well, and these also won prizes in the open class. Of course he did not have a full show herd but is planning one for next year. Claude gives several requirements for success in pig club work, which are as follows:

1. Use great care in the selection of seed stock.
2. Be careful about feeding, especially young stock.
3. Constantly study type and showmanship.
4. Be enthusiastic about your breed.
5. Study your breed paper.

Am pleased with M. B. F. and do not care to be without it.—W. W. Davis, Washtenaw County.

Your paper is certainly fine, only I would like to receive such a paper every week. If your paper was a weekly you would certainly make — publication a sickly weekly.—Edward Klever, Newago County.

CANCER—FREE BOOK SENT ON REQUEST

Tells cause of cancer and what to do for pain, bleeding, odor, etc. Write for it today, mentioning this paper. Address Indianapolis Cancer Hospital, Indianapolis, Ind.—(Adv.)

We Want to Send You THIS AMAZING, NEW Poultry Book

SEND for this book now. It will show you how you can make your poultry pay you a bigger profit—how you can have a sure, safe and steady income from your poultry and eggs—how you can make poultry-raising pay you as good money as any farm crop.

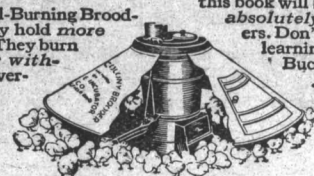
THINK! Today, the value of eggs consumed every year is double that of 15 years ago. Today, the nation is paying two and one-half times more for poultry every year than it paid 15 years ago. And our population is growing at the rate of a million and a half a year. More poultry and eggs than ever are needed this year to supply this new demand—a new demand worth millions of dollars.

\$500 to \$2500 a Year

Take advantage of these opportunities. Profit from the enormous demand for poultry products. You can do it. You can raise bigger flocks and do it easier. You can make many times more money from poultry with no more attention than you give it now. Thousands of farmers have an income from poultry alone of \$500 to \$2500 a year. So can you.

Marvelous COAL-BURNING BROODER—Amazing Low Prices

The improved Buckeye Coal-Burning Brooders have larger stoves. They hold more coal. They give more heat. They burn soft coal or hard coal longer without refueling. They don't over-heat or under-heat. The new revolving hover saves time, work and trouble. NOW, learn about the other features and the low prices—the greatest values ever offered.



Buckeye

Coal-Burning Brooders—"Rite-Heat"
Oil-Burning Brooders—"Blue Flame"
Oil-Burning Brooders—Buckeye Electric Brooders—Buckeye Incubators

THE BUCKEYE INCUBATOR CO.,
2911 Euclid Ave., Springfield, Ohio.

Gentlemen:
Please send me your amazing new Poultry book FREE.

Name _____
Address _____
P. O. _____ State _____



The New BLUE HEN BROODER

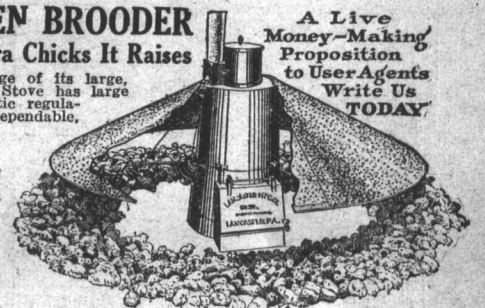
Pays for Itself in the Extra Chicks It Raises

An even healthy heat right to the outer edge of its large, sturdy, re-inforced hover. No floor drafts. Stove has large firepot, ample coal magazine, perfect automatic regulation—minimum cost for fuel and care. Dependable, efficient—built to last.

Made also with safe, efficient, BLUE FLAME OIL BURNER

Write for the "Blue Hen Book of Brooder Facts," FREE

LANCASTER MFG. COMPANY
908 S. Janet St., Lancaster, Pa.



A Live Money-Making Proposition to User Agents Write Us TODAY

PROFIT PRODUCING CHICKS

Michigan Accredited Chicks that are bred from proven blood lines, indicating official approval by authorized state inspectors. Immediate shipment. **BIG DISCOUNT NOW! PAY \$1.00 DOWN—BALANCE C. O. D.** Pay for your chicks when you get them. Send \$1.00 and we will ship C. O. D. Get our big new catalog. It is free. It will help you. Your choice of three profitable breeds. 100% live delivery guaranteed.
BRUMMER FREDERICKSON POULTRY FARM, Box 26, Holland, Mich.

SUPERIOR BRED CHICKS

Superior Leghorns are those Michigan Accredited Leghorns that for years have demonstrated their ability to make good under actual farm conditions. Careful breeding on our modern breeding plant has resulted in remarkable egg production of this strain. **GET OUR BIG 64 PAGE CATALOG—ITS FREE** This big book tells the complete story of Superior Leghorns—from egg to matured bird. See in pictures our modern breeding and trapping plant 600 pullets in R. O. P. Record of 285 in R. O. P. last year. Every breeder inspected and passed by authorized state inspectors. Hanson, Tancred & Barron bloodlines carefully blended in. **100% live delivery postpaid. Catalog**
SUPERIOR POULTRY FARMS, Inc., Box 401, Zeeland, Mich.

VILLAGE VIEW



Chicks direct from farm to YOU

Write today for complete information about these heavy producing White Leghorns and Barred Rocks. Carefully bred strains that are produced to make good on your farm. Free range flocks carefully mated for best results.

FREE CATALOG GIVES LOW PRICES Before you order your chicks get this free catalog that tells all about these money makers. You will be interested in the high quality of our stock and pleased at our prices. A postcard brings the information. Write today.
VILLAGE VIEW POULTRY FARM, R. 3, Box 3, Zeeland, Mich.

BOS QUALITY CLASS A CHICKS

From healthy heavy layers of large eggs. S. C. Eng. White Leghorns, Brown Leghorns, Anconas, R. I. Reds, and Assorted chicks at reasonable prices. No money down. Pay full amount 10 days before chicks are shipped or C. O. D. Special discounts. 100% live delivery postpaid. Catalog free. **BOS HATCHERY, Zeeland, Mich., R. 2 B.**

FARMS—An Opportunity rarely offered to secure improved farm homes, 80 acres up, direct from owner, no profits, no commission; in famed dairy section Wisconsin; Bread and butter State Minnesota, Rich prairie soil North Dakota, fertile lands near best markets in Michigan. \$200 to \$1000 cash. Balance 36 years at 5%. Write today.

Dept. 32 **FEDERAL LAND BANK** St. Paul, Minn.

CHICKS Don't Smother in a Dickelman

METAL BROODER HOUSE

Its circular shape and metal walls with no dark corners, keep chicks from bunching up and smothering. 1000 chicks size brooder stove with 52-inch canopy provides ample heat even in zero weather with small fuel consumption. Absolutely fire, rat, weasel and mink proof. Perfect ventilation, without drafts. Built in 500 chick size units or in long type houses suitable for continuous brood systems. Shipped, "Knocked-down." Man and boy can erect it quickly. Write us today. Agents wanted, liberal commissions.

Free Book on MODERN Poultry Housing

This free booklet tells all about Modern Poultry Housing. Tells how to feed and manage for best results. Remember a "Dickelman" pays for itself.

DICKELMAN MFG. CO.
Dept. 329 Forest, Ohio

DARLINGS MEAT SCRAPS Are Better

The Standard for 35 Years

—the feed recommended by owners of successful poultry farms, breeders of fancy stock and dealers everywhere. Darling's Meat Scraps are clean and wholesome, contain over 60% protein and are very low in grease content. Will keep better and bring health and strength to chicks—more eggs, bigger hens.

GET THE FREE BOOK—"Feeding Secrets"

of famous poultrymen—now published in book form and sent free to poultrymen. Tells facts and gives advice never universally known before. Book is for poultry raisers interested in making chickens raising more profitable. Send your dealer's name and we will send you your copy free. Write for it now.

Darling & Company
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U. S. Yards, Chicago, Ill.
Manufacturers
DIGESTER TANKAGE
SPECIAL BONE MEAL
FERTILIZERS

LAKEVIEW BABY CHICKS

Bred for Profits

Quality-bred and quality-hatched Lakeview chicks grow rapidly into real money. World's best strains in our supply flocks, all Michigan accredited—that means business. Officially culled, state inspected. Official records up to 252 eggs at Michigan egg contest, 1927. 215 egg hen at Mountain Grove, Mo., 1927.

Get Big FREE Catalog

Great descriptions of strong, vigorous Smith Hatched Chicks of famous Leckers strains, also Barred and W. Rocks, Buff Orp., W. Wyand., and S. C. R. I. Reds—all money-making breeds. Make reservations early—10 per chick books your order. Big Discounts on Early Orders.

LAKEVIEW POULTRY FARM
M. J. Kote, Prop.
Box 9 Holland, Michigan
Member International
Baby Chick Association

A Solid Foundation for Success with Poultry

Free for Asthma During Winter

A Remarkable Method that Has Come to the Rescue of Asthmatics and Checks the Worst Attacks—Send Today for Free Trial

If you suffer with those terrible attacks of Asthma when it is cold and damp; if you choke as if each gasp for breath was the very last, don't fail to send at once to the Frontier Asthma Co. for a free trial of their remarkable method. No matter where you live or whether you have any faith in any remedy under the Sun, send for this free trial. If you have suffered for a life-time and tried what you thought was the best skill known to cope with the most terrible attacks of Asthma, if you are discouraged beyond hope, send for this free trial.

FREE TRIAL COUPON
FRONTIER ASTHMA CO.,
1179 F Frontier Bldg., 462 Niagara St., Buffalo, N. Y.
Send free trial of your method to

Form Anti-Thief Association In Your County

(Continued from Page 4)

mittee shall designate, the premium on which shall be paid out of association funds. All reward checks shall be countersigned by the president.

Article IX. Executive Committee—The executive committee shall consist of the president, vice-president, secretary-treasurer and four other members elected by the membership. The duties of the executive committee shall be to transact the business of the association and the president shall call the committee together at such times and places as may be necessary. The committee may meet at the call of the vice-president in case of inability or absence of the president. Not less than three members of the executive committee shall constitute a quorum to transact business.

Article X. Terms of Office—After the first annual meeting, all officers and elected members of the executive committee shall serve for one year.

Article XI. Meetings—The organization meeting at which this constitution is adopted and officers elected, shall not be considered as the first annual meeting of the association.

The first annual meeting shall be held at such time and place as shall be determined by the executive committee, not more than one year from this _____, 192____, at which time hereafter officers shall be elected for the ensuing year, outgoing officers shall make a final report and other necessary business shall be transacted.

Special meetings may be called by the president. Not less than the members shall constitute a quorum to do business at any regular or special meeting.

Article XII. Duties of Members—Each member shall be required to sign this constitution and by-laws; pay all dues and reward assessments; attend meetings; post notices; endeavor to obtain additional members; observe and report suspicious characters and unusual circumstances to the president of the association who shall in turn pass such report to the county sheriff's office; report immediately all cases of theft; cooperate with other members in the capture or detection of suspects; and assist in the prosecution of suspects.

Article XIII. Organization—The organization of this association shall not be considered as complete until at least _____ persons have paid the membership fee, contributed to the reward fund and executed a reward pledge note. Signing of the reward pledge note shall be considered as signing the constitution and by-laws of this association.

Unless a membership of _____ is attained within sixty days from _____, 192____, all monies advanced for the reward fund shall be returned to contributors and all other funds shall be pro-rated to contributors after deducting accrued and final expenses.

Article XIV. Amendments—This constitution and by laws may be amended at any regular or special meeting, by majority vote of the

members present, providing notices setting forth the nature of the intended amendments have been mailed to all members in good standing ten days before the meeting.

By-Laws

Article I. Order of Business—The following shall be the order of business at all meetings: 1. Call to order. 2. Roll call. 3. Report of officers. 4. Old business. 5. New business. 6. Report of committees. 7. Adjournment.

Article II. Meeting Place—The regular place of meeting of the association shall be at _____, unless otherwise designated by the president.

Article III. Reward—A reward of \$_____ shall be paid for the arrest and conviction of any person who may have committed theft or any other criminal depredation against farm property and who is sentenced therefor to thirty or more days in jail or in any state penal institution. This reward shall not be paid until final judgment of conviction is entered in a court of record in _____ county or in the records of the supreme court in case of appeal, and when such person or persons have been imprisoned for the purpose of serving their sentence.

Article IV. Withdrawals—Members may withdraw from the association without refund of any monies paid to the association by making written request upon the executive committee, provided no person shall be allowed to withdraw if a case is pending wherein such member would be liable to contribute toward the payment of reward in case of conviction.

Article V. Disbandment—Should this association become inactive, the secretary-treasurer shall render a final financial report to the executive committee and when such report is acceptable, the committee shall order the secretary-treasurer to make a pro-rata rebate by check to all members in good standing of any funds that may show to the credit of the association or the reward fund, at the same time returning all notes. Sixty days after the last check has been mailed, the secretary-treasurer's bond may be cancelled.

JUST BEGINNERS

We have 300 Leghorn pullets and we are just beginners. We use carbolic acid in their drinking water at the rate of one teaspoonful to thirty quarts of water to help keep them healthy. Can it be used stronger than that or is that strong enough? How is the best way to feed cod liver oil?—C. H., Macomb County.

CUT out the carbolic acid; all you will do with this if you keep it up is to make them sick. Don't give such things to keep poultry well but feed and house them properly and they will not need such things.

Cod liver oil is best mixed with the mash or the grain; 2 pounds to each 100 pounds.

Subscribe for some good poultry magazines as you will find them very helpful.—Dr. Geo. H. Conn.

REWARD PLEDGE NOTE

Whereas the _____ Protective Association offers \$_____ reward for the arrest and conviction of a farm thief or thieves or any person committing criminal depredation against farm property belonging to a member, therefore:

For value received, I promise to pay on demand to _____ Protective Association, a sum not to exceed \$_____ for each arrest and conviction of a thief or other criminal molesting the farm property of a member of the association, said sum to become part of a reward fund that will be paid out by the executive committee of this association in the payment of rewards as provided in the constitution and by-laws of this association, with the understanding that one payment only shall be made for each instance of theft or other depredation whether one or more persons are involved, and provided that payments on account of this note shall not total more than \$5.00 in any one year.

This note, without interest, may be cancelled on written notice to the executive committee of this association, providing there are no rewards pending.

I transact banking business with the _____ Bank of _____.

This or any other bank in which I may have funds is hereby authorized to pay this note and charge the same to my account.

I have read and understand the constitution and by-laws of this association, and I understand that in signing this note I am also becoming a member of the association, and am signing the constitution and by-laws thereof, and hereafter I am subject to the conditions provided therein.

Signed _____

Address _____

This is a suggested form for your reward pledge note.

Going Fishing?



Here's Good Luck for You

NATIONAL SPORTSMAN will give you the right dope when to go, where to go and what tackle to use to get the big fellows. 68 pages each month crammed full of blood singling pictures, stories and valuable information.

And here's the **REMINGTON SPORTSMAN'S KNIFE** shown in actual size, with stag handle and two long slender blades, just what you need for skinning and cleaning fish and game. Blades are of superior quality steel just right for a good clean job of skinning and skinning. The name **Remington** on the blade is your guarantee of quality.

Remington

on the blade is your guarantee of quality.

SPECIAL OFFER

We will send you this **Remington Sportsman's Knife** and **National Sportsman** for a whole year, 12 Big Issues.

ALL \$1.00 FOR 1

Satisfaction guaranteed or money refunded. Mail your order today.

NATIONAL SPORTSMAN MAGAZINE
226 NEWBURY STREET, BOSTON, MASS.

DOWN'S BABY CHICKS

DOWN'S LEGHORNS LEAD STATE CONTEST

Last report (Dec. 14) shows our leg-horns leading Michigan International Egg Laying Contest. 1,000 pullets now being trap-nested in R. O. P. To insure delivery when wanted—order your Michigan Accredited chicks NOW! Free circular and prices on request.

DOWN'S POULTRY FARM
ROMEO, MICH. R. F. D. No. 2

DOWN'S WHITE LEGHORNS

ROSS METAL GALVANIZED ROSS BROODER HOUSE PREVENTS LOSSES

Near round—no corners for crowding—rat and vermin proof. New exclusive idea in cross ventilation. Combination ventilator and fine. Glass windows. Diameter 12 feet. Capacity 500 chicks. Built sectional—easily enlarged. Buy Now—Pay Later—Write Today.

ROSS CUTTER & SLO CO. 313 Warden St., Springfield, Ohio. Makers Ross Metal Silos—Cuttters—Cribs—Bins—Hog Houses—Mills—Garages.

OSSEGE-BIG C.O.D. CHICK OFFER

Pay the postman when you get your chicks. Pure-bred selected stock with fine breed type and laying ability. **Big Catalog Free.**

Write for our illustrated catalog which tells all about our chicks and our C.O.D. plan of shipment. Write today. **J.W. Ossege Hatchery, Dept. 29 Ottawa, O.**

MEADOWNOOK CHICKS WILL MAKE YOU MORE MONEY

Michigan Accredited and Blood tested Barred Rocks. Foundation Stock from Canadian R. O. P.

White Leghorns from Tanager Foundations. Have purchased some males from L. C. Beall, Jr., Washington State R. O. P. Breeder for further improvement.

Send for circular explaining matings in both breeds.

MEADOWNOOK HATCHERY
L. D. Haskell Avoca, Mich.

64 BREEDS Most Profitable chickens, ducks, turkeys and geese. Choice, pure bred northern raised. Fowls, eggs, chicks, incubators at low prices. America's great poultry farm. At it 35 yrs. Valuable 100-page book and catalog free. **R. F. Neubert Co., Box 819 Mankato, Minn.**

Work of Poultry Improvement Association

By J. A. DAVIDSON

THE Michigan State Poultry Improvement Association was organized in June, 1925, for the purpose of undertaking a general program to include educational work in cooperation with the poultry department of Michigan State College and any other agencies that may cooperate for the advancement of the poultry industry; to develop and maintain in cooperation with the poultry department of the College an inspection service to inspect the hatcheries, flocks and premises of its members who make application for such inspection; to establish rules and regulations for various grades in connection with the accredited hatchery group; and to accredit or certify such hatcheries and flocks as shall satisfactorily pass inspection.

This Association has a membership of approximately 2000. This Association can accomplish more in a few years than any individual or individuals can in a lifetime for the advancement of poultry in general. The Record of Performance home trapping project was started by the Poultry Improvement Association as an affiliated association. The Association has assisted in securing legislative action for the benefit of the poultry business in cooperation with other agencies. This Association furthers any work of any nature that will have any bearing upon the welfare of the poultry industry in Michigan as a whole. The Association is also interested in any national program that has any connection with the poultry industry, particularly insofar as it affects Michigan and various officers of the Association have spent considerable time in connection with the establishment of a standard national breeding plan so that the grades throughout the country would be uniform.

The Association has retained the inspection of flocks and hatcheries as its main function in accreditation and certification of poultry. This in itself is a sufficient and important project to warrant the expenditure of time and money. This work is carried on entirely under the accredited hatchery group. The board of directors that direct this work through the field manager of the Association is made up of 9 men from the membership and the poultry department of the College. This board handles all details pertaining to accredited and certified flocks and hatcheries.

Reason for Inspection

Perhaps it would be well to explain the reason for having this inspection program before explaining in detail how it is done. In the past there has been a tendency, as in any other business, for many individuals to make claims and statements absolutely unfounded in the furtherance of their own financial gain or to place themselves upon the same plane as some competitor. The actual quality was present only on paper. A great many flocks were used for breeding purposes that were not good representatives of the breed or variety that they were supposed to represent. Many flocks were not systematically culled and satisfactory breeding males were not always used. Incubators were not satisfactorily cleaned and disinfected after each hatch and conditions were not ideal for the production of good chicks. Chicks were not properly culled in some cases. Complaints against losses did not receive the attention that they rightly deserve. The establishment of this inspection service was instituted for the purpose of instilling confidence in the buying public, and protection against individuals operating hatcheries with no consideration of their buyers. Furthermore, the establishment of such a service gave the reliable and honest breeder and hatcheryman recognition of his efforts both physical and financial in the improvement of the quality of his product.

The cost of this inspection service is carried by the members of the Association. Each accredited hatchery operator signs a legal contract binding him to the observance of all rules and regulations, and provides for a fine of 25c per chick for every chick produced and removal from the As-

sociation in case of violation of any part of the contract. As soon as this contract is signed the association proceeds with the actual work of accrediting the flocks from which that hatchery produces eggs.

Birds Must Be Banded

Before a flock can be accredited, all the birds must be handled and banded with a permanently sealed legband furnished by the Association. These birds must be banded in the presence of someone authorized by the Association and holding a certificate for proficiency in culling for standard and production qualities from the poultry department of the College. The birds that are left must be good specimens of the breed, free from standard disqualifications, well matured, and show satisfactory qualifications for good egg production according to the standards set forth by the College. In addition no flock is accredited which shows symptoms of any serious disease. The flock must be well cared for and well managed. All rejected birds must be removed from the breeding flock and sold. A certificate is furnished to the owner after the inspection of the flock by the Association inspectors and the approval of the Accrediting Board.

Accredited Hatcheries

Before a hatchery may become accredited all flocks furnishing eggs to that hatchery must be accredited. The purchase of eggs from unknown sources or unaccredited flocks is prohibited. The hatchery is inspected from time to time, for cleanliness and sanitation. Accurate records must be kept of the purchase of eggs, number of chicks hatched, and to whom the chicks were sent. All eggs used must average 23 ounces to the dozen and be uniform in quality. All chicks must be carefully sorted and culled and properly packed for shipment. Mixed chicks or cull chicks cannot be sold under the Association's trade mark. An accredited hatchery cannot purchase chicks from an unaccredited hatchery for sale. The inspection of hatcheries is just as important as that of the breeding stock to see that it is properly operated and that the business methods are entirely ethical.

The advertising copy and catalogs must be approved before being used. This insures the statement of facts and the absence of misleading statements. The Association in the past has prevented several concerns from using fraudulent advertising.

Welcomes Information

The Association welcomes any information concerning poor quality stock or chicks or complaints that are satisfactorily or promptly handled. The Association maintains an office at East Lansing in connection with the Poultry Department and any trouble with the Association members may be reported there.

Accreditation is the first step in the improvement program. Certification is the second step differing only in the use of Approved Record of Performance male birds. All other inspection is carried on in the same manner as in accreditation. The approval of all R. O. P. male birds and the supervision of trapping and pedigree work is handled by the Record of Performance Association. No hatchery is permitted to produce both accredited and certified chicks.

The Association has accomplished a great deal of good so far. It will accomplish more, if it receives the support from the public which it is striving to serve. It has been accused of being a selling organization with the coinage of new terms for the purpose of advertising. The Association conducts no business other than inspection and the promotion of a high quality product. It is interested in seeing the purchaser receive what he buys and the production of a good product truthfully advertised.

We have been readers of M. B. F. for many years and like it very much. We would not be without it because it can not be beat.—Lawrence Crist, Ionia County.

We have taken M. B. F. for two years and the children as well as ourselves look forward to its coming as we certainly do enjoy it.—Mrs. F. Terpstra, Kent County.



Lady Skyline, new world's champion, owned by Goris Brothers of Canon City, Colorado, laid 235 eggs in 235 consecutive days with Reef Brand Pure Crushed Oyster Shell.

REEF BRAND
Over 98% pure Calcium Carbonate. 99 6/10% digestible in 8 hours. Odorless and dustless. Packed in heavy 12-oz. burlap bags.



235 Eggs

in 235 consecutive days with

Reef Brand Crushed Oyster Shell

FOR POULTRY

An egg a day for 235 days! And less than 50 worth of Reef Brand furnished the calcium carbonate for the shells.

Not every hen fed Reef Brand will lay an egg a day, but the fact that every hen in the contest pen made consistently high records with this shell-building material proves that it will help your hens too. They will lay more eggs with Reef Brand because it furnishes the calcium carbonate every hen needs in its most digestible form.

Reef Brand is working for you 8 hours after the hens pick it up . . . 4 hours faster than any similar material. Your hens can eat more—digest more—and lay more.

Ask your dealer for Reef Brand and check the results yourself.

Reef Brand

PURE CRUSHED
OYSTER
SHELL

FOR POULTRY
Gulf Crushing Company
833 Howard Avenue
New Orleans, La.

Free Write Bob Crawford, Gulf Crushing Company for your FREE copy of the booklet—"How To Get 24 Eggs for 5c."

WOLVERINE S.C. WHITE LEGHORN BABY CHICKS

BLOOD WILL TELL 100% SAFE ARRIVAL GUARANTEED MICHIGAN ACCREDITED

FOR WINTER EGG PRODUCERS

Get our Large Leghorns, the birds with large combs that produce the Large, Chalk White Eggs

Send for Our 1928 Catalog

Tells all about our chicks and breeding stock.

EGG BRED SINCE 1910

For 18 years we have specialized in the production of S. C. White Leghorns, and breed no other variety. All our time, thought and energy in selecting and mating has been devoted to our Leghorns. You are assured of very desirable stock.

100% LIVE ARRIVAL GUARANTEED

WOLVERINE HATCHERY AND FARMS

H. P. Wiersma, Owner and Breeder, Dept. 4, Zee'and, Mich.

SILVER WARD SELECT CHICKS

You can save money by ordering your Silver Ward Michigan Accredited chicks now. We give a special discount that means a substantial saving in the cost of your chicks. Furthermore you are sure of your chicks exactly when you want them. The big free catalog gives complete details.

GET THESE FACTS

You owe it to yourself to get all the facts as to sources of well bred stock. It means your success or failure. Silver Ward has long been recognized as one of the leaders. Get the catalog. It's free and it tells all about us. Michigan Accredited Silver Ward chicks are chicks bred from foundations of such blood lines as Barron and Tanager Leghorns, Sheppards, Anconas, Etc. They are fine chicks, moderately priced. Try some this year. The catalog is free.

This catalog is yours for the asking.

SILVER WARD HATCHERY
Box 30 Zeeland, Mich.

HIGHLAND LEGHORNS



Every breeder carefully selected for size, type and egg production. Mated to males of 200 to 300 egg pedigreed ancestry.

CHICKS SHIPPED C. O. D.

See your chicks before you pay for them. We know you will be pleased and we are willing to take all the risk. This assures you of 100% live delivery and shipment exactly when you specify.

SPECIAL DISCOUNT NOW!

On all orders for chicks booked this month we give a big discount. Get our new valuable catalog which gives complete details. Write for copy today.

HIGHLAND POULTRY FARM, R. 9, Box S, Holland, Mich.

HOLLAND HATCHERY

It will pay you to investigate one of Michigan's oldest and best hatcheries. Twenty years' experience. Every chick hatched from rugged free range breeders officially accredited by inspectors, supervised by Michigan State Poultry Improvement Association.

LARGE PERCENTAGE OF BUSINESS TO SATISFIED OLD CUSTOMERS. White Leghorns (English type and American). Banded Rocks, Anconas. Your Michigan Accredited chicks bought of this old reliable concern with an established reputation for square dealing are sure to please. 100% live delivery prepaid. Get our FREE catalog before placing your order.

VAN APPELDORN BROS., HOLLAND HATCHERY & POULTRY FARM, R-7B, Holland, Michigan.



"THE FARM PAPER OF SERVICE"

That's us, folks. If we can be of service do not hesitate to write in. Advice costs nothing if you're a paid-up subscriber.

The Business Farmer, Mt. Clemens, Mich.



MARKET FLASHES



Market Steady at Beginning of New Year

Wool Continues Active—Good Demand for Cash Wheat

By Market News Service, Bureau of Agricultural Economics, U. S. D. A.

(Special to THE BUSINESS FARMER)

PRICES continue to make a good general showing without much weakness anywhere. Cattle markets subsided after the sharp upturn early in the month, caused by light shipment. Grains and feeds, dairy products and vegetables are holding. Eggs have been doing quite as well as usual at this time of year.

Unusually light receipts of cattle at Chicago during the fore part of the week ended January 7, following meager marketings during the holidays, resulted in what the trade termed the wildest cattle market at that point in trade history. Slaughter steer values were considered the highest on record, taking into due account the shorted condition of the crop. Later in the period receipts expanded and the market closed the week sharply lower than the high time on all classes excepting bulls, but retained a portion of the early gain on some classes. At the week-end weighty fed steers were mostly 15 cents to 25 cents higher than a week earlier, while lighter offerings showed a loss of most of the early upturn.

Light to moderate hog supplies early in the week ending January 7 were followed by an enormous run of 80,000 head on Thursday. Because of uneven distribution of receipts, price fluctuations were more violent than usual and the close found Chicago prices unevenly 20 to 40 cents lower than a week earlier. The closing top was \$8.50, against \$8.85 a week previous.

Wool

Wool continues in active demand with further price gains amounting to a cent per pound on some grades. Limited supplies of domestic combing wools and prospect of only moderate supplies to come, is the basis of a fairly strong situation.

Grain

The grain markets turned firmer during the first week of the new year and prices tended generally higher. An active demand for cash wheat resulting in an improved flour demand, together with a light market movement and a good absorption of world shipments by European markets, strengthened the wheat market. Premiums for the better grades of milling wheat were advanced at most markets. Offerings of high protein Kansas milling wheat were very light but receipts of lower grades were in excess of current demand at Kansas City. The supplies of soft winter wheat at the markets were scarcely equal to the limited demand. Corn prices advanced principally as a result of an active demand stimulated by the colder weather. Oats followed the advance in corn prices and rye was higher with wheat. Barley and flax, however, had independent strength and prices made good gains.

Hay

Hay markets were more active, with colder weather stimulating the demand and restricting country marketings. Prices held steady with a larger proportion of the sales near the top of the quotations at the various markets. Most timothy markets showed considerably more strength than during recent weeks and prices were firm to slightly higher. Alfalfa markets in the Central West were steady with a good demand both from local and outside trade. Top grades of prairie were moving readily at firm prices and medium grades were being taken fairly well.

Feedstuffs

The demand for feedstuffs was also stimulated by the colder weather and offerings were readily absorbed, even at slight advances in prices. Demand for feedstuffs, however, was generally for immediate shipment with only a little interest shown in deferred offerings.

Cottonseed meal prices made a further advance but linseed meal

was fractionally lower at most markets in spite of the strength in other feeds. An improved demand gave more firmness to the market for wheat feeds while the advance in corn tended to advance prices for gluten and hominy feed.

The cold wave of early January did much damage to southern truck crops and probably some injury to citrus fruits, particularly in Florida. Tender vegetables were entirely destroyed in some sections and will have to be replanted or other crops grown instead. Freezing temperatures were recorded in all the Gulf States and as far south as the Rio Grande Valley of Texas and the Fort Myers section of Florida. Spinach in Texas was especially hard hit.

Potatoes

Potatoes advanced 5 or 10 cents per hundred pounds in most cities but lost nearly as much at shipping

Imports may not amount to much, the margin of profit being small and liable to be wiped out by slight changes in price.

Cheese

Cheese is arriving in moderate quantity but production may be expected to show gradual increase. Trade is quiet but prices hold firm. Eggs have continued high longer than usual, owing to weather conditions which checked any great increase in early January production, even in the South. Cold storage eggs are coming out rapidly and may clear up before the spring rush of fresh shipments. Demand continued good.

Poultry

Dressed poultry markets act well because of light receipts, fairly active demand and moderate holdings in cold storage. Live poultry has been a weak feature, owing to heavy receipts for the time of year and lack of special demand.

BEANS

The action of the bean market during the last couple of weeks has caused a very broad smile to ap-

MARKET REPORTS BY RADIO DAILY

THE Michigan Business Farmer was first to broadcast farm market reports in Michigan (January 4, 1926). Market reports and farm news are now available as follows: WGHP (277.6 meters), 6:05 to 7:00 P. M.; WKAR (277.6), 12:00 M.; WWJ (352.7), 5:45 P. M.; WCX-WJR (440.9), 4:15 P. M.—Editor.

points, except in western New York. Onion markets were strong, advances of 25 to 50 cents per sack occurring in many distributing centers. Apples held about steady at home but improved somewhat in British and Continental markets. Exports were increasing. Texas spinach and cabbage showed a much higher price range, chiefly as a result of the cold spell. Spinach was bringing twice as much as a year ago.

Butter

Butter prices have held up rather well against a slight gain in supplies and some competition of foreign butter. Good demand, which has taken care of the stocks in cold storage, is still the backbone of the market. Difficulties may increase, with the gradual gain in production stimulated by the advancing season, the abundance of hay and the moderate prices of most of the millfeeds.

pear on the faces of farmers who have some choice pea beans stored. Many places we believe the smile has become a laugh. The price has advanced over a dollar per hundred pounds in the last two weeks and the present tone of the market indicates that the top has not been reached yet. Demand is reported to be very good. Some are predicting \$7 beans before another crop. We hope so. Both farmers and elevator men deserve to make some money this year.

DETROIT LIVE POULTRY

(Commission merchants' gross returns per pound to farmers, from which prices 5 per cent commission and transportation charges are deductible.)

Hens weak, other poultry steady. Hens, colored, 4 lbs. up, 28c; small colored, 25c; leghorns, 21c; cocks,

16c. Springs, 4 lbs. up, 29c; leghorns, 21c. Capons, fat, 7 lbs. up, 35c@36c; small or slips, 30c@32c. Ducks, white, 5 lbs. up, 27c; smaller or dark, 24c. Geese, 20c.

DETROIT BUTTER AND EGGS

Butter firm; creamery, in tubs, 88 to 90 score, 43 1/2 @ 46c. Eggs firm; fresh firsts, 42 @ 45c.

DETROIT SEEDS

Clover seed, cash imported, \$16; February, \$16.50; March, \$16.50; domestic cash, \$18.65; February, \$18.85; March, \$18.80. Alsike, cash, \$16.30; February, \$16.45; March, \$16.60. Timothy, cash, \$2.05; March, \$2.15.

BOSTON WOOL MARKET

Demand for wool continues steadily and prices are slowly but surely hardening for all descriptions, both here and abroad. Stocks of wool in Boston dealers' possession January 5, including tops and nolls, at 55 million pounds, were somewhat larger than expected but not materially so. Last year, when there were much larger stocks at country points, there were 81 million pounds in Boston.

Foreign primary markets have shown a slight rising tendency this week and an advance of fully five per cent is predicted for all descriptions at London on Tuesday.

The contracting movement in the west has slowed down but some wool is being taken here and there at substantially last week's prices.

Demand for goods is reported as rather slow but the outlook is considered healthy.

Mohair is but moderately active but very firm.

Michigan and New York fleeces—Delaine, unwashed, 44 @ 45c; 1/2 blood combing, 47c; 3/4 blood combing, 49 @ 50c; 1/4 blood combing, 50c.—Commercial Bulletin.

LIVESTOCK MARKETS

Detroit, January 17.—Cattle: Market steady; good to choice yearlings, dry fed, \$11@13.75; best heavy steers, dry fed, \$10.25@13; best handy weight butcher steers, \$9@11; mixed steers and heifers, \$9@10; handy light butchers, \$7.50@9.50; light butchers, \$6@8.50; best cows, \$7@9.25; butcher cows, \$6@7; common cows, \$5.50@5.75; canners, \$4.75@5.25; choice light bulls, \$6@9; heavy bulls, \$7@8.75; stock bulls, \$6@7.75; feeders, \$7@9.50; stockers, \$7@8.50; milkers and springers, \$7.50@11.50.

Veal calves—Market steady; best, \$16@16.50; others, \$7@15.50.

Sheep and Lambs—Market steady to 25c higher; bulk good lambs, \$13; best lambs, \$13@13.25; fair lambs, \$10.50; light to common lambs, \$6@9; fair to good sheep, \$5.50@7; culls and common, \$2@3.

Hogs—Market prospects 10@15c lower; 180 to 300 averages, \$8.60.

Chicago.—Cattle: Generally steady; vealers 25c higher; one load 1,387-lb. steers, \$15.85; bulk steer offerings averaging 950 to 1,100 lbs., \$11.50@13.25; common light southern bred offerings, \$8.90@9.15; most low cutters cows, \$5.50@5.60; lower grade beef cows predominating at \$7@8; most sausage bulls, \$7.25@8.25; best, \$8.50; cows and heifers and light yearlings, especially yearling heifers, unevenly lower for week; yearling heifers off most; largely \$11@12 trade on light vealers. Hogs: Market closed active same as early; general trade 10@15c up; mostly 15c up; light lights 25c and in spots 40c higher; pigs generally 25c higher; top, \$8.50; all weights 170 to 290 lbs. at that price; bulk desirable hogs 170 lbs. up \$8.30@8.45; light lights mostly \$7.75@8.25; most pigs, \$6.75@7.25; numerous sales strong weights up to \$7.50; bulk packing sows, \$7.15@7.50; best 350 to 400 lbs. \$7.65; shippers took 16,000; estimated holdover 3,000. Sheep: Fat lambs slow and about steady; spots 10@25c lower; top, \$13.25 to all interests; bulk 83 to 90-lb. lambs, \$12.75@13; popular price, \$13; 92 to 100-lb. offerings, \$12@12.75; extreme weights rejected from loads, \$11.25 1/2@11.75; light native throwouts, \$10.50@11.25; fat ewes, steady; bulk, \$6.50@7.25; feeding lambs, strong to 15c higher late; bulk, \$12@12.75; mixed fat and feeding lambs, \$13.15.

East Buffalo.—Cattle: Steady. Hogs: Steady; heavies and yorkers, \$9; pigs and lights, \$7.50@8.50. Sheep: Lower; top lambs, \$13.50; yearlings, \$11@12; wethers, \$8.50@9; ewe, \$6@7.50. Calves,

THE BUSINESS FARMER'S MARKET SUMMARY

and Comparison with Markets Two Weeks Ago and One Year Ago

	Detroit Jan. 17	Chicago Jan. 14	Detroit Jan. 3	Detroit 1 yr. ago
WHEAT—				
No. 2 Red	\$1.41		\$1.41	\$1.38
No. 2 White	1.38 1/2		1.38 1/2	1.39
No. 2 Mixed	1.38 1/2		1.38 1/2	1.37
CORN—				
No. 2 Yellow	.96		.93	.81
No. 3 Yellow	.94	.88 1/2	.91	.76
OATS				
No. 2 White	.60 1/2	.55 3/4 @ .57	.59	.53
No. 3 White	.59	.54 @ .56	.57 1/2	.50
RYE—				
Cash No. 2	1.15		1.15	.99
BEANS—				
C. H. P. Cwt.	6.15		5.60	4.70 @ 4.75
POTATOES—				
Per Cwt.	2.16	1.50 @ 1.60	2.00 @ 2.15	2.47 @ 2.53
HAY—				
No. 1 Tim.	13 @ 14	18 @ 19	13 @ 14	19 @ 20.50
No. 2 Tim.	10 @ 11	15 @ 17	10 @ 11	17 @ 18
No. 1 Clover	11 @ 12.50	18 @ 19	11 @ 12.50	17 @ 18
Light Mixed	13 @ 14	18 @ 19	13 @ 14	18 @ 19.50

Tuesday, January 17.—Wheat and beans advance. Corn, oats and rye steady. Livestock unchanged.



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R. R. 12, Box B.F. Holland, Mich.

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(Received Too Late To Classify)

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PEACH TREES. \$5.00 PER 100 AND UP. Apple trees, \$7.50 per 100 and up. In large or small lots direct to planters by freight, parcel post, express. Plums, pears, cherries, grapes, nuts, berries, pecans, vines; ornamental trees, vines and shrubs. Free catalog in colors. Tennessee Nursery Co., Box 137, Cleveland, Tenn.

4 MONTMORENCY CHERRY TREES, POSTPAID, \$1.00. Catalog free. Peach Belt Nurseries, Bangor, Michigan.

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COFFMAN'S BARRED ROCKS. BREEDING pens headed with males having nineteen years actual trap nests records back of them, 258-310 eggs per year. Cockerels, Eggs and Chicks for sale. Warren Coffman, Benton Harbor, Mich., R. 1.

BABY CHICKS—YOU CAN BUY YOUR EARLY hatched Michigan Accredited chicks right here at home. First hatch January 15. Also booking orders now for spring delivery at special discount. Send for catalog and prices. Brummer-Fredrickson Poultry Farm, Box 30, Holland, Mich.



Week of January 22

DURING or close to the beginning of this week in Michigan the weather will become unsettled with some rather severe storms in sections with damaging winds. These conditions will continue through the first half of the week ending with a sudden drop in temperature about or close to Wednesday.

However, shortly after the middle of the week temperatures will take a sharp upward turn that will result in thawing, slushy conditions in many sections. This warm weather will produce more or less rain or snow storms in many counties.

During the closing days of the week there will be a number of heavy wind storms and it is not unlikely that there will be some local winter thunder storms.

Week of January 29

Temperatures at beginning of this week will range close to the normal with the skies clearing but as the middle of the week approaches colder weather is to be expected.

During the middle days of the week, beginning about Tuesday and lasting generally over Thursday, there will be more or less storminess in the state. Besides the rain or snow periods there will be some severe wind storms.

The closing days of the week will bring temperatures low for the season and mostly fair weather.

We are expecting the month of February will record precipitation above the seasonal normal in most parts of Michigan.

PURE BRED WHITE HOLLAND TURKEYS and Pekin Ducks strong and perfectly healthy. Addressed, stamped envelope for reply. A. Whitcomb, Byron Center, Mich.

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world's greatest harness value. This remarkable harness revolutionized the harness industry. In ten years it has won recognized world leadership. Thousands of farmers in every state, in Canada, and even in foreign countries use and praise the Walsh No-Buckle Harness.

Three Times Stronger Than Buckle Harness

Buckles weaken and tear straps. By actual test in steel testing machine, a Walsh 1½-inch breeching strap holds over 1100 lbs. The same strap with buckle will break at the buckle at about 360 lbs. pull. Ordinary harness has 68 buckles. Walsh

Harness has no buckles—easy to see why Walsh is three times stronger. Rings wear straps in two causing early repairs. Ordinary harness has 275 places where there is ring friction. Walsh Harness has no rings. Walsh leather is given the most rigid inspection test known in the harness industry. Only the back, the choicest part of the hide is used. It is selected Northern Steer Hide, tanned by a special six months' process, explained in my free book.

Costs Less—Lasts Twice as Long

The Walsh saves costly repairs and breakdowns. No stubborn buckles to bother with when winter cold bites the fingers and straps are stiff. Walsh patented adjustable strap holders do away with buckles and rings, and the harder the pull, the tighter they hold.

Easily Adjusted to Fit Any Horse

In ten minutes you can adjust a Walsh to fit any horse or mule like a glove. It's a comfortable harness, a handy harness, a handsome harness and it stays that way. Made in ten styles—Breechingless, Express, Side Backer, etc. All pictured and described in my free book.

Send No Money.

Not a penny down is required until you try a Walsh No-Buckle Harness thirty days on your own team. Use it as if it were your own—give it every fair test you can think of. If it doesn't sell itself to you after 30 days' good, hard workout, don't keep it—just slip it in the box and return it at my expense.

\$7.50 After 30 Days' Free Trial

Balance in easy monthly installments. Otherwise return it at my expense. Pay cash after trial if you wish. My guarantee protects you. Write today. Fill out and mail the coupon. The free book explains everything including my user-agent plan whereby you can earn money showing Walsh Harness to your neighbors.

James M. Walsh, JAMES M. WALSH CO.
Dept. 423 123 Wisconsin Avenue, Milwaukee, Wis.

See How Buckles Weaken and Tear Straps

The WALSH Has No Buckles—No Rings



Here is the cause of all your harness trouble, repair expense, breakdowns. Why put up with this when you can get a Walsh, which has no buckles—no rings.

See How Rings Wear End of Straps in Two

Wants to Buy Collars, Too

I am sending for another harness. We sure like the one we bought from you. I would like also to try your collars. We have seen the collars—one of our neigh-

bors is using a pair.—JACOB STUFFLE, Exeland, Wis.

Orders Another Set

I have been very much pleased with the harness I bought from you last spring. Am enclosing order for another set.—BENJ. E. BAUSUM, Annapolis, Md.

A Collar as good as the Harness

SEE HOW EASY TO PUT ON—TAKE OFF—OR ADJUST



A wonderful new Horse Collar—easier on the horse. As the horse loses or puts on flesh, collar can be perfectly adjusted to fit. Fine for growing colts. Allows room for sweat pad. Read all about this amazing new collar in my big free Harness Book. Mail the coupon today.

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They all come back for more, like Frank Lindner, Fargo, N. D. who tried a Walsh on one team—now has all his teams fitted with Walsh Harness.