

# MICHIGAN FARMER

AND LIVE STOCK JOURNAL  
PUBLISHED WEEKLY. ESTABLISHED 1843.

VOL. CLIX. No. 22  
Whole Number 4228

DETROIT, MICH., SATURDAY, NOVEMBER 25, 1922

ONE YEAR \$1.00  
FIVE YEARS \$3.00







Published Weekly Established 1843 Copyright 1922

**The Lawrence Publishing Co.**  
Editors and Proprietors

1632 LaFayette Boulevard Detroit, Michigan  
TELEPHONE CHERRY 8384

NEW YORK OFFICE-95 Madison Ave.  
CHICAGO OFFICE-1109 Transportation Bldg.  
CLEVELAND OFFICE-101 1-1013 Oregon Ave., N. E.  
PHILADELPHIA OFFICE-261-263 South Third St.

ARTHUR CAPPER ..... President  
MARCO MORROW ..... Vice-President  
J. F. CUNNINGHAM ..... Treasurer  
F. H. NANCE ..... Secretary

I. R. WATERBURY ..... Associate Editor  
BURT WERMUTH ..... Associate Editor  
FRANK A. WILKEN ..... Associate Editor  
L. A. LEONARD ..... Associate Editor

I. R. WATERBURY ..... Business Manager

**TERMS OF SUBSCRIPTION**  
One Year, 52 issues ..... \$1.00  
Three Years, 156 issues ..... \$2.00  
Five Years, 260 issues ..... \$3.00  
All sent postpaid  
Canadian subscription 50c a year extra for postage

**RATES OF ADVERTISING**  
55 cents per line agate type measurement, or \$7.70 per inch (14 agate lines per inch) per insertion. No advertisement inserted for less than \$1.65 each insertion. No objectionable advertisements inserted at any time.

Member Standard Farm Papers Association and Audit Bureau of Circulation.

Entered as Second Class Matter at the Post Office at Detroit, Michigan. Under the Act of March 3, 1879

VOLUME CLVIX NUMBER TWENTY-TWO

DETROIT, NOVEMBER 25, 1922

## CURRENT COMMENT

### THE MICHIGAN FARMER SAYS:

There is no such animal as a "butter substitute."

There is more in life than work, but there would not be much life without work.

Suspicion is the propagator of discord. Let's avoid it by being more careful in forming our opinions.

Most anyone can get along on the level, but it takes extra determination and energy to climb hills.

Fireside farming will be the prevailing occupation for many in a little while. It should be a worth while part of your farming activities.

It is the chaff, not the wheat, which blows away after the use of the flail. It is the weak, not the strong, which succumb to adversity. There is need for farmers to be strong in these days of adjustment.

The ideal day is eight hours' work, eight hours' recreation and eight hours' sleep. But the man who likes his work so well that it is play, gets sixteen hours of recreation and eight hours of sleep, and makes a success of his work-besides.

### The Key Stone

WE recall the story of the stone which the builders rejected. Rolled to one side, other materials soon accumulated about this stone until it was nearly lost. But in time it was sought and found and finally became the key which held firmly together the arch of the great temple.

Michigan's agricultural history is something like the history of this stone. In the western migration of land-seekers she was ignored, being looked upon as inferior and even impossible as a farming section. But when the great test came during the world war it was soon evident that the type of agriculture to which Michigan conditions were peculiarly fitted and which her farmers had developed, was much better adapted to resist the hardships of a severe depression than were the one-crop states. As a consequence a score of these single-crop states have inaugurated programs urging farmers to adopt diversified farming.

Our attention is brought to this subject by the very recent announcement

that Michigan is due to add another line of farming which may become of great commercial importance. It is now positively known that tulip bulbs can be grown in southern Michigan at a profit. These plants bed, force, produce and reproduce normally under certain Michigan conditions. This business no doubt will and should develop slowly. But with the principle of diversified farming established and the federal survey showing that right conditions exist here, it is tolerably certain that our progressive tillers of the soil will see that this new line of farming will be advanced as rapidly as it should.

This, with the recent establishment of our leadership in the baby chick business and in fox farming, indicates that Michigan will finally be discovered as the key state and continue to lead her sister states in the diversified farming program.

### Indicating Michigan's Popularity

STATISTICS are usually dry, hard to understand, but often interesting after some one has taken the time to get the interesting facts out of them.

Lately, some figures have been compiled which show that Michigan is judged by many people to be a good state to live in. These figures show the relation between the ingoing and outgoing population, or in other words, the immigration and emmigration.

It was shown that during the first half of the year New York lost approximately eighty per cent of the number of people who came in the state by those going out. Ohio and Pennsylvania also had eighty per cent of the number of people who came in the state go out of it. Massachusetts, Illinois and New Jersey lost by those leaving the state, about one-half of their increase in population due to immigration.

Michigan, however, had only one-third of the number leave the state that came into it to make a home. It also made the highest proportional gain in population of any of the leading states of the Union.

It is thought that Michigan's rapid recovery from the recent depression, her favorable situation agriculturally, and her freedom from labor troubles are the main factors which make her a favored state.

### Help, Do Not Hinder

SAID the boy, "I wish I could have some chickens to raise, so I could earn a little money." Said the father, "Oh, it would be too much of a bother and you wouldn't make anything out of it anyhow."

The Dad's wrong. He should have said, "That's the stuff. Go right ahead. I'll give you a couple of hens and a rooster, so you can have some hatching eggs next spring. You keep a record of what feed you use and you can pay me for it after you get started."

Encouragement is one of the greatest factors in the proper development of youth. To discourage any laudable ambition of the young is to place a handicap on them which is more lasting in effect than we realize. How often we old folks have wanted to do things, constructive things, which we did not do because we lacked the confidence and had the fear to try. We can help to overcome this same feeling in our children by giving them as free a reign with their constructive desires as we possibly can. Some of these urgings of youth seem a little foolish to us and may prove their foolishness to the youth after a trial but the mere trying will add to the boy's confidence to do things.

Hundreds of boys and girls have been given years of advancement in

life by following their urge through the guidance of the boys' and girls' clubs. Many in their teens are well on the way to success in farming, their life's occupation, because their desire to do things was helped and guided by good leaders.

### A Good Way to Fail

IT was about a year ago that a southern Michigan farmer bought at reasonably good prices thirty pure-bred animals. This past season crops in his locality were poor, due to dry weather. As a consequence he did not have enough feed for these animals. After allowing them to go for a couple of months on half rations and get in a very emaciated condition, he offered them last week at public auction. The animals were bid off at less than half price, entailing a heavy loss to the owner.

Such is the story of how one man failed. Another farmer accomplished the same end by purchasing a good farm and then permitting it to run down. A third obtained a supply of highly-bred seed and then paid no attention to maintaining its standard. Still another built expensive buildings and watched them go to ruin. Many, many instances could be enumerated of how farmers, like other men, have failed through the deterioration of property in their hands. Anyone can do it. All that is necessary is to simply let things go. The result will be inevitable.

### The Cold Heart

SELFISHNESS is a primal instinct which most of us very rarely get entirely rid of. With all its cuteness, the baby is the most selfish individual. Unselfishness, or consideration of others, comes as a result of our contact with other people. Education and civilization should make us less selfish, and it undoubtedly does, but it also adds a multiplicity of duties and activities in which we become engrossed so that we often forget our social relationship in the broader sense of the word.

A noted educator has said that "the cold hearts and indifference of so-called civilized people are more menacing than the bolshevists and wavers of red flags. Cold hearts and cold feet are national perils."

The bolshevist, or red, is rampant, noisy and noticeable. We know he is our problem because he advertises himself as such. But indifference is quiet, spreading no propaganda, and therefore is not recognized as a problem. It is, however, insidious in its effect on our body politic and our social organization. Perhaps the reason we do not notice it is because most all of us can be accused of being afflicted with some degree of indifference. The trouble is with us, and therefore we can not see it.

"Honest Abe" said that this was a government of the people, for the people and by the people. But the activities of most of the people in this government consists of listening to a few campaign speeches and marking a few X's on the ballot once or twice a year. Our other citizenship activities consist mostly of grumbling about how things are run.

Radicalism thrives on public indifference and grumbling. But it would not have a ghost of a show if each of us would encourage loyalty to governmental institutions and quit grumbling until we were sure we had due cause for complaint. And then instead of grumbling we should become factors of construction instead of destruction if we would do our little part in helping to overcome the difficulty. In so doing we would bring this government much closer to Lincoln's conception of it.

### Then and Now

DURING the war prices were high in America and low in Australia. The reason for this was that ships were scarce and the available bottoms could carry more food to fighting, starving Europe from our shores than from far-off Australia. Naturally we got the business.

Today within our own land we have a similar situation. There is the usual urgency for the movement of perishable crops. At the same time the greatest car shortage on record, exists. Instead, however, of using the available cars for short hauls as they did during the war time, the powers that be are sending the empties to the uttermost parts of the country to carry products which are in abundant supply much nearer the points of consumption. As a consequence, producing localities within reasonable distance of big cities are getting fewer cars than their normal quota, while sections far remote are having their quotas filled.

We can see one distinct advantage in this situation. The railroads are getting the benefit that comes from the long hauls. Possibly the car distribution orders should be issued to favor the railroads instead of the public. But since railroads were built for public service we cannot understand why this should be so.

### Southern Breezes

THESE mornin's when the frost is on the punkin and it's warmer in bed than outa it, makes sleepin' feel fine and makes a fellow think the alarm clock is a instrument of torture. Now, I ain't got one of them regular alarm clocks, but Sophie is my instrument of torture at the time of the day when sleepin' feels the best.

I just don't like this difficulty of startin' the day, and think it is fine when you kin follow the weather when it goes south. These pictures of girls takin' their bath in the Gulf of Mexico with their bathin' suits is sure a inducement, especially when I got a take mine in a dish pan without my bathin' suit.

I always wanted to find out how Pam Beach suits were made, so I

took a trip to Pam Beach. And I tell you it sure was fine, but I found bathin' suits more interestin' than Pam Beach ones. I got in one of them bathin' suits myself. I felt ashamed of my general exposure, but felt purty well covered when I got in the water.

I had lots of fun playin' "Ring-Around-a-Rosie" with some girls what is as nice as them school girls I've been takin' ridin'. They splashed me and ducked me and I returned the favors to them. After a while they got me out on the beach and they buried me, all except my head. And after they got me all covered they said I looked like the Rocky Mountains on the beach. When they said that, I luffed, and made a earthquake.

Then I got up and we played tag and leap frog and had lots of fun. You know them southern breezes offa the ocean make you feel like you was twenty-five years younger. And them breezes sure felt fine blowin' in my face and through my hair. One of the girls run after me and said, "Tag, you are it." Then I woke up and there was Sophie sleepin' like twenty mile a hour and blowin' in my face to beat the band. That was them southern breezes I was dreamin' about. In a little while she wakes up and says she was dreamin' the house was cold and the fire out, and she was blowin' tryin' to get the fire started again.

HY SYCKLE.





# Hold a School Fair this Year

*With the Boys and the Girls and Fathers and Mothers and Teacher all Interested It will Become the Big Event of the School Year.*

By E. G. Williams

**I**N many communities the school fair has become one of the most interesting social events of the year, bringing young and old together, with the result that a better understanding is established between the present and future generation of the community.

It is gradually coming to be realized that there is no stronger incentive to keep young men and women on the farm than personal interest and activity in some practical phase of farm work. And the special interest that always appeals with the paramount force is the show and prize list.

To organize an exhibition of boys' and girls' work and make it a success is almost, if not quite, as great a task as to get up a show for the adults. One reason for this is that the boys and girls should have as much as possible to do with the arrangements; and they must, in most cases, be directed, to a large extent, in the things to be done and the methods of doing.

If it is a school fair the teacher will wisely refrain from too much dictation or bossing, laying the business before the pupils with the best suggestions, but leaving the deciding and the performance as much as possible with the classes or committees in charge of the various departments. The following suggestions may be of great value to those wishing to put on some such affair.

First, select a boy to conduct the program on the day of the show; second, a boy to construct or secure the tables and decorate the rooms; third, a boy to see that the products are entered in the proper classes as they are brought in; fourth, a boy to act as clerk for the judge on the day of the show; fifth, a boy to place ribbons on the products and distribute the prizes.

While each of these boys may help

the others, yet each has a particular job, for which he is responsible. These boys are chosen by their classmates, to carry out their particular duties. They may have assistants, if needed. After having elected officers for the show, the next problem is one of advertising. This can be done in several ways.

Here are suggestions that might be helpful: An attractive, well-arranged premium list, to be circulated, a letter sent either by the teacher or by one of the pupils to the leading farmers of the community; announcements at public meetings; a series of news items for local newspapers; a number of handbills distributed throughout the community; attractive posters, and window displays.

A few rules are necessary in running

a successful fair. For example:

All exhibits must have been grown during the preceding season on the farm of the exhibitor.

An entry of corn shall consist of ten ears, unless otherwise provided for.

Entries should be made in person if possible.

Only one entry will be allowed any exhibitor in a single class.

No entrance fee shall be charged to exhibitors.

Small grains are generally brought in quantities of one peck each.

Different methods have been used in securing premiums. In some cases the agricultural departments put on a play, the proceeds to be used for the expense of the exhibit and the payment of premiums. In other cases some local organization may contribute. The

more common plan has been to depend on individual contributions of money or merchandise from local merchants or others interested. In such cases, the contributor should be given publicity in exchange for the gift.

The exhibits shown may be sold at auction after the show and the money used to pay expenses. Sometimes, however, this is not satisfactory, as the owners of good exhibits often wish to keep them. This can be arranged for those who wish their products back.

Expensive premiums should not be encouraged. It has been found much more satisfactory to offer several small premiums than a few large ones. Some schools have found it advisable to give, in addition to other premiums, printed ribbons, denoting first, second, third and fourth classes.

It has been found advantageous to have some form of entertainment or speaking in connection with the show. In one instance, a room was provided for the exhibition of relics and curios. This proved an attractive part of the show. A corn-judging contest should be held by the boys taking agricultural work, or possibly, a stock judging contest. Demonstrations in knot-tying, halter-making and rope-splicing by vocational boys are always of interest.

Care should be exercised in securing a competent judge. Sometimes the county agent is available and does satisfactory work; in other cases the extension department may be able to furnish a good man. In every instance the judge should be a man in whom the people have confidence. Future shows may be discouraged through neglect of this point. It is well to make use of the experience of the past, but the fair needs to be kept up-to-date.



There Will be Pleasure and Profit in Selecting the Exhibits.

## The Greatest Live Stock School

*Prof. G. A. Brown of M. A. C. Tells of the Educational Opportunities Offered by the Great International at Chicago*

**T**HE greatest of all agricultural exhibits from the standpoint of educational value to those who attend, will be held at Chicago when the International Live Stock Exhibition celebrates its twenty-third anniversary, December 2-9, 1922.

This show has long since outgrown its name. Not only does it bring together the best and most representative animals of all breeds from the four corners of the earth, thus entitling it to be called the premier live stock display of the world, but has so enlarged its scope during the past few years that it now embodies educational and display departments touching practically all phases of rural life, and of educational value to every member of the family, including the wife and children.

This show is the only exhibition where commercial live stock production of single animals and carload lots, of cattle, sheep and swine receives as much attention as the pure-bred breeding animal so necessary to successful economic production of market animals. The display of single entries of pure-bred steers, barrows and wethers in the exposition buildings will be a revelation to the live stock producer and thoroughly convince him of the value of improved breeding and better

methods of feeding in the production of meat-producing animals.

In the stock yards will be found carload exhibits of steers, hogs and sheep, all of them of superior individuality and market topping caliber, the kind for which the packer is willing to pay a premium. The owners of these carload lots are always on hand to explain to the onlooker the methods of feeding used to attain the results shown and the animals speak volumes themselves for the use of pure-bred sires.

The carload exhibits are not pampered show exhibits, but are fitted, on farms where the income from live stock is the sole source of income, with the idea of producing a market-topping animal at the least possible cost of production and greatest profit to the feeder. The carload exhibits are not

limited to finished cattle; many carload lots of feeder steers will be exhibited for the prizes and sold at auction at the close of the exhibition. Every farmer who is producing steers, lambs or hogs, can well afford a visit to view the carload exhibits alone.

In the main exposition buildings and judging arena will be found the best pure-bred beef cattle, sheep and hogs from every state of the Union and Canada. Here it is that the prize winners and champions from many state and regional fairs compete for the supreme honors of the live stock universe. From Saturday morning, December 2, until December 9, the judging arena of the well-lighted, steam heated pavilion, capable of seating 15,000 people, will be a parade ground for the aristocrats of the animal kingdom, constantly passing in review be-

fore the judges and thousands of spectators. Here the old and new breeder of pure-bred live stock will rub elbows, "swap" experiences, and become familiar with the correct standards for the breed in which they are interested.

Practically all of the pedigree record associations will hold their annual meetings some time during the week, elect officers, and outline policies for the promotion of their favorite breed during the ensuing year. Every breeder should take an active part in the activities of his breed association by attending its annual meeting and assist in formulating an active policy for the promotion of pure-bred live stock interests.

Successful live stock production is dependent in a large measure upon the economic production of hay and grain. This year will be held in connection with the show, the Fourth International Hay and Grain Show. Last year three thousand samples of grain, hay and seeds were on exhibit. The exhibits in this department are all grouped and classed according to the region in which they were produced, thus enabling the visitor to compare varieties and samples of seed adapted to his particular locality. The breeding and development of improved and

(Continued on page 575).



It is a Great Place to Study Animal Types.



# NATIONAL LIGHT KEROSENE Heat-Light Power

## Forty Years Ago

the first National Light Kerosene was sold for oil lamps. It gave a steady white, bright light with a clear chimney and clean wick. Almost immediately it lifted itself out of the ordinary Coal Oil class of oils and became famous as a Kerosene with no smoke or odor. People traveled miles out of their way to buy it.

Today National Light Kerosene is known as the highest quality Kerosene on the market.

Use it in your oil stoves and heaters. No impurities to clog wick or burner. No smoke or odor to cause ill health.

Use it in your Incubators, its uniform heat will hatch healthy chicks from every fertile egg. No poisonous fumes to clog egg shell pores when used in Incubators or fumes to kill little chicks in the Brooder.

Use it in your Tractor, it will develop more power than ordinary Coal Oil because every drop is consumed in the firing chamber, eliminating any chance of the unused portion diluting Lubricating oil in the crank case.

Use National Light Kerosene for your Lighting Plant, Lanterns, every purpose where Kerosene is used you will find "National Light" more satisfactory and economical.

You can use a drum or more. Mail your order if your dealer cannot supply you and we will ship from one of our 96 Distributing Branches nearest to you.

**THE NATIONAL REFINING CO.**  
Scientific Refining  
704-D National Bldg., Cleveland, Ohio

**The National Refining Co.**  
704-D National Bldg., Cleveland, Ohio

Ship from your nearest distributing point..... 50-gallon drums National Light Kerosene.

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

## Late Agricultural News

### FEDERAL GRADES SUCCESSFUL.

THE department of agriculture is receiving many letters from producers' and shippers' organizations which have adopted federal grades for fruits and vegetables, in nearly every instance giving a favorable report of the results from standardization. A letter received from a large peach orchard organization in Ohio reads:

"The advantages of standardization is no longer a theory but an accomplished fact. Our selling price was from fifteen to fifty cents per bushel higher than the other houses in this district, and the greatest advantages of a standard grade and pack will, of course, be secured in the coming seasons, provided we maintain our standards. We packed out fifty-eight cars, and every one of our members is well pleased and, best of all, determined to begin in their own orchards at once to try to produce fruit of higher and better quality. We see no point at which the United States standard grades for peaches are not thoroughly practical, and another year we will doubtless eliminate the old markings entirely."

### TREE PLANTING WEEK PROPOSED.

IN response to requests made by the American Farm Bureau Federation and other organizations, that the President proclaim a national "tree planting week" this fall or next spring, Secretary Wallace says the question of how most effectively to encourage such planting is by no means a simple one. "The designation of a single week or day either in the spring or

autumn, from a national standpoint, is impractical, because of the wide disparity in the best planting dates in different portions of the country. The specialists of the department are of the opinion that this is a matter that can best be decided by the several states or regions rather than to undertake the selection of some arbitrary date which, while suitable for one section, may be quite inadvisable for others. I concur in their opinion and believe that the setting of a national date might result in heavy losses of valuable trees in some sections through untimely transplanting. The bureau of plant industry and the forest service are actively encouraging such planting work through cooperative demonstrations in many parts of the country, while the extension workers, state agricultural colleges and other public agencies are disseminating much helpful information along these lines in most of the states. I regard this as the more certain way of accomplishing the results desired, with a minimum risk or waste of money, energy and valuable planting material."

### REPORT OF EGG-LAYING CONTEST.

AT the end of the second week of the Michigan Egg-Laying Contest the Leghorns still showed their ability to lay eggs, as the first five pens were Leghorns. Mr. E. D. Shaw's pen, from South Haven, leads with a score of eighty-six eggs. That of E. D. Taylor, Kalamazoo, comes second with eighty; W. A. Down, Washington, Michigan, third, with seventy-nine, and J. W.

Keys, of Owosso, and Alfred TerHaar, Hudsonville, tied with seventy-two eggs each. The next in egg production is the Barred Rock pen of H. E. Denison, with fifty-eight eggs to its credit. The pen of Rhode Island Reds belonging to Leon O. Dunning, of Delton, had a score of fifty-one eggs, while the Wyandotte pen of F. W. Sinks, Farmington, comes next with forty-nine eggs. The highest pen of Ancons was that of A. R. VanRaatie, of Zeeland, Michigan, which laid thirty-two eggs.

So far five pens still have no eggs to their credit, but the contest average is very satisfactory, the production for the week being 28.9 per cent. The bad weather during the past week has been a good test of the contest houses. They have remained perfectly dry and are in good condition.

### CHANGE IN PLACE OF HOLDING FARMERS' CLUB SESSIONS.

SINCE publishing the announcement of the annual meeting place for the Michigan State Association of Farmers' Clubs on December 5-6, word has been received from the secretary, Mrs. I. R. Johnson, that the senate chamber in the capitol building at Lansing will be used instead of the assembly room. Further announcement is made of a banquet to be held on the evening of the fifth at the Baptist Church, of the Michigan State Automobile Tour Association.

### INTEREST IN FARM BUREAU.

GRAY SILVER and R. F. Bower, of the Washington office of the American Farm Bureau Federation have been in New Hampshire attending annual meetings of county farm bureaus. They report an attendance of over three hundred at each meeting. Much interest in the work of the farm bureau at Washington was shown, and the legislative program of the Farm Bureau Federation was endorsed.

### TO REGISTER CO-OP. TRADE MARKS.

THE Washington office of the American Farm Bureau Federation is prepared to secure the registration of trade-marks for agricultural cooperative marketing associations and farmers at actual cost of the service.

The farm bureau representatives explain that the trade-mark registration is not a contract nor a grant by the federal government to the registrant. It is a certificate from the commissioner of patents showing that the registrant has used the mark in commerce and is prima facie entitled to its ownership. In the case of a rival concern using the registrant's mark the latter can seek, and probably without delay, secure an injunction against his rival, whereas without such registration the case would have to be rarely proved before the court would grant a restraining order.

An association or farmer doing business on a small scale may neglect to register a trade-mark, feeling that because of a limited amount of business it is not worth while. When the business grows the trade-mark becomes more important. It sometimes happens that a business sustains losses because someone else registers the trade-mark.

The Inwood Fruit Growers' Association of West Virginia was the first to take advantage of the Farm Bureau Federation's federal trade-mark registration service. The Inwood trade-mark is known as the "Johnny Appleseed Brand," the name being derived from the historical character who planted apple seeds along the old Cumberland trail and the many trails leading through Ohio.



Wednesday, November 15.

THE steamer Nordland sinks off St. Francis, in Lake Michigan. The crew of nineteen were saved.—Mary McSwiney, sister of the former mayor of Dublin, is on her ninth day of hunger strike in an Irish prison.—Over a thousand are dead as the result of frequent earthquakes along the coast of Chili.—A Greek army of 50,000 is mobilized to defend the frontier at Mudania against the Turks.

Thursday, November 16.

SNOW blocks United States mail service in Utah.—Secretary of State Hughes refuses to budge from neutral attitude on Turkish question regardless of foreign pressure.—The United States Supreme Court rules that states may enforce compulsory vaccination.—Senator Borah, of Idaho, one of the liberal republicans, plans to form a third party.

Friday, November 17.

THE supreme court bars Japanese from becoming United States citizens.—An automatically-controlled airplane made a ninety-mile flight successfully.—The cabinet of Chancellor Wirth resigned after the German united socialists refused to join the ministry.—A Chicago financial expert says that the federal income tax will have to remain unaltered for about ten years so that the government may meet its obligations.

Saturday, November 18.

THE Turks warn the allies to keep their hands off the cash and to withdraw their ships and troops.—In

the recent election the British conservatives got more than half of the votes cast for all parties. The Conservatives is an anti-Lloyd George party.—The United States sends two relief ships to the quake zone in Chili.

Sunday, November 19.

IT is expected that President Harding will cut 1923-24 federal budget about \$300,000,000.—President Harding broke the hand-shaking record the other day when he shook hands with 1,450 people.—The former Chancellor Wirth, of Germany, pleads with the United States to act as umpire in European affairs.—Bergdol, the famous millionaire draft-dodger, is jilted by a native girl in a little town in Germany.

Monday, November 19.

THE Turkish Sultan flees on a British war-ship because he feared attack from his countrymen.—A Harvard professor says that the income tax has made the United States a nation of liars.—Four Irish rebels were executed in Dublin and an uprising has resulted.

Tuesday, November 20.

THE Los Angeles city council upheld the God-given right of a mule to kick, in denying a bill of \$8.25 presented by an employe for damage to the seat of his trousers by a mule.—Wilhelm Cuno will endeavor to form a new German cabinet.—Senator Truman H. Newberry has resigned, after four years of bitter partisan controversy.



# Getting Milk to the Babies

*Many Plans in Vogue—Some are Succeeding Well, While Others are Not*

A CONVINCING demonstration of the great interest now being taken in cooperative commodity marketing of agricultural products was indicated by the large attendance of representative dairymen at the annual convention of the National Milk Producers' Federation in Springfield, Mass., November 9-10.

When President Milo D. Campbell, of Coldwater, Michigan, called the convention to order, nearly every seat in the large hall was filled. This was said to be the best attended, the most interesting and helpful meeting held by the federation.

The different methods of conducting the business of cooperative milk selling associations were discussed at length, by men who are actually in the business of handling cooperative milk. The prevailing sentiment seemed to favor the pooling system, but this has not proved satisfactory in the Chicago district, and New England has a different plan which undoubtedly best meets her situation. The evidence tended to the conclusion that there is no hard and fast rule for the conduct of a cooperative enterprise that will fit conditions in all parts of the country.

### Minnesota Plan.

H. R. Leonard, manager of the Twin City Milk Producers' Association reported that his association is an all-pooling organization with 4,200 members supplying ninety per cent of the milk consumed in St. Paul and Minneapolis. Fifty directors are elected each year by the locals, from which five officers are chosen. The contracts are self-renewing unless notice is given by the member.

The association takes care of the surplus, giving the dealers from day to day just what they can sell. The

remainder is manufactured into butter, cheese, etc., in twelve plants owned by the association. The association has \$400,000 invested, is free of debt and has \$150,000 reserves. One hundred and fifty trucks are used in handling milk from farm to city. The sales this year aggregated \$4,000,000.

W. F. Schilling, president of the Twin City Association, said the most important thing in operating a cooperative was to keep the farmer advised as to what you are doing, whether it be good or bad. "Tell him the facts, and also tell the consumer the truth. If you deviate from this policy you are not going to get anywhere."

### How it Goes at the Capitol.

The farmers supplying Washington with milk did not start out with the (Continued on page 573).

### GROWS OVER 300 BUSHELS OF POTATOES PER ACRE.

SEEING your request in the November 4 issue of the Michigan Farmer, to the potato growers of Michigan for information about their potato crops for the year 1922, I wish to state the facts of our yield.

We plowed a two-acre plot of clover-alfalfa sod for this potato field, having first covered it with barnyard manure. Certified Late Petoskeys were planted on June 22. They were cultivated regularly; all insects, diseases and blight were kept under control by spraying. The tops were green until the temperature was cold enough to freeze water. The official report (Michigan Potato Growers' Association) of the yield for the two acres was 635 bushels. The soil of this field is a sandy loam.—Irvin Cole & Sons.

# Is Your Title Good?

*Experts Say Titles to Farms in Michigan are Generally Defective*

THE total assets of the Federal Land Bank of St. Paul, which serves the Upper Peninsula of Michigan, are \$75,000,000, according to Mr. E. G. Quamme, president of the bank. The Federal Land Bank of St. Paul, this year, is placing loans at the rate of \$2,000,000 per month, and it is expected that the total volume of loans of the bank will be increased \$30,000,000 before the end of the year.

During the past few months loans placed by this bank in Michigan have outranked, or only been second to, loans placed in other states of the bank's territory, according to the monthly statement of business. We have run neck and neck with Wisconsin, says the report, while Minnesota and North Dakota came third and fourth.

In Michigan there are 124 chartered farm loan associations, which represents the total of all such associations in the Upper Peninsula. Each Michigan association was allowed an allotment of twenty new loans, this summer, and many of them have already completed their allotment. For the coming winter and spring, there is no limitation on the number of allotments for this state.

When the federal farm loan system was inaugurated, five years and more ago, Minnesota and North Dakota were quicker to take advantage of its facilities, being less well developed agriculturally than Wisconsin and Michigan, but, of late, President Quamme reports, Michigan and Wisconsin farmers are more fully making use of the bank's facilities. During the past three

years Michigan and Wisconsin have been rapidly organizing, and all of Michigan is said to be so organized, and Wisconsin mostly so.

The great drawback to placing loans from the Federal Land Bank in Michigan is stated by the bank's president to be the title and abstract system prevailing in this state. Michigan has the poorest abstracts in the United States, in the opinion of the bank. There are said to be not over a dozen abstractors in Michigan who can furnish as satisfactory an abstract as is obtained elsewhere. We get poor tract indexes instead of real abstracts, in this state, the president avers, since we adhere to old customs. The Federal Land Bank of St. Paul hopes that Michigan will adopt laws and regulations which will give as good abstracts of title as can be secured in Minnesota and North Dakota.

In Michigan, also, says President Quamme, it is hard to get well equipped secretary-treasurers for the local associations. In Minnesota and North Dakota local bankers commonly serve in this capacity, who know how to handle this business for the farmers satisfactorily. There are a few instances where local bankers in Michigan are acting as secretary-treasurers of the local farm loan associations and the results are said to be very satisfactory. President Quamme specifies in this connection the work done by Mr. Howard Nadeau, of Menominee. The bank says if the unsatisfactory conditions that obtain in Michigan were rectified, the business done here could be doubled or trebled.—Chase.



## There's no lead in a lead pencil

YOU use a pencil frequently. You call it a lead pencil.

But it isn't a lead pencil — for there isn't any lead in it.

What is called lead, in a pencil, is graphite, and graphite is carbon.

Now think of something as familiar as your pencil, and which really does contain lead.

Do you think of your coffee cup? Your bathtub? Your rubber boots? The tires on your automobile? Your fountain pen?

There's lead in all of them. The glaze of your cup contains lead, so does the porcelain finish of your tub — there's lead in the rubber that's in your tires and your rubber boots and your fountain pen.

Lead is so useful in so many ways that it gets into a surprising number of different articles and products that add to the comfort of civilized life.

There is one use of lead that is more important than all the others. Wherever you may be at the instant you read this—whether indoors or outdoors—you can almost certainly see and touch the most important of all lead products—paint.



Everywhere people are learning that a painted surface is a protected surface, and that an unpainted surface is an invitation to deterioration and decay. "Save the surface and you save all" has become a national slogan.

White-lead is the principal factor in good paint, and white-lead is pure metallic lead, corroded, and mixed with linseed oil. Think for just one minute of the painted surfaces, large or small, which you look at every day, from skyscrapers down to the numbers on a freight car—and you will begin to form some idea of the vast quantities of metallic lead that are used in making the white-lead which enters into good paint.

White-lead gives to paint its durability and working qualities. Some manufactured paints contain more white-lead than others—but all good paint contains some white-lead. Painters generally use straight "lead-and-oil," which is white-lead thinned by the addition of pure linseed oil. They know that this kind of paint gives satisfaction because it looks so well and lasts so long.

National Lead Company makes white-lead of the highest quality, and sells it, mixed with pure linseed oil, under the name and trademark of

### Dutch Boy White-Lead

Write to our nearest branch office, address Department J, for a free copy of our "Wonder Book of Lead," which interestingly describes the hundred-and-one ways in which lead enters into the daily life of everyone.

### NATIONAL LEAD COMPANY

New York Boston Cincinnati San Francisco  
Cleveland Buffalo Chicago St. Louis

JOHN T. LEWIS & BROS. CO., Philadelphia  
NATIONAL LEAD & OIL CO., Pittsburgh



#### Products Manufactured by National Lead Company

- |                          |                |
|--------------------------|----------------|
| Dutch Boy White-Lead     | Lead Castings  |
| Dutch Boy Red-Lead       | Sugar of Lead  |
| Dutch Boy Linseed Oil    | Lead Weights   |
| Dutch Boy Flattening Oil | Calking Lead   |
| Dutch Boy Babbitt Metals | Lead Washers   |
| Dutch Boy Solders        | Music Plates   |
| Lead Hammers             | Pinking Blocks |



# How much sleep do you need?

**I**T ISN'T so much a question of the number of hours you spend in bed, as it is of the *quality* of the sleep you get. Is your sleep sound and restful, or is it fitful and unrefreshing?

One common cause of wakefulness at night is over-stimulation from coffee drinking. For coffee contains caffeine which irritates the nerves and frequently leads to insomnia.

If you have any idea that coffee keeps you awake at night, or makes you nervous, make a change from coffee to delicious Postum.

This pure cereal beverage contains nothing that can harm health, and its flavor is much like coffee. In fact, many people prefer Postum for its flavor alone.

Your grocer sells Postum in two forms: Instant Postum (in tins) prepared instantly in the cup by the addition of boiling water. Postum Cereal (in packages) for those who prefer to make the drink while the meal is being prepared; made by boiling fully 20 minutes. The two forms are equally delicious; and the cost is only about 1/2c per cup.

## Postum for Health

"There's a Reason"

Made by  
Postum Cereal Company, Inc.  
Battle Creek, Mich.



### Here's Another PENINSULAR Sheep Skin Coat No. 51

If you want comfort, warmth, roominess and wearability in an excellent sheep skin lined coat, ask for the Peninsular. The illustration shows Peninsular No. 51 belted and sheep-lined to the edge, made of selected, long wool, "live" skins—and it's a dandy—as you can readily see. Full cut—reinforced—best of material—highest grade of workmanship—and guaranteed. Just the thing for those real cold days. Sizes 38 to 50, price \$13.50. Also see Peninsular No. 26, priced at \$12.00, both styles 36" long. If your dealer cannot supply you write to us direct.

**Geo. F. Minto & Co.**  
Dept. F. Detroit, Mich.

Peninsular shirts, hosiery, underwear, etc., in suitable weights for all seasons. Also makers of the famous Flexknit sweaters and bathing suits.



**Cull Beans \$15.00 Ton**  
**Bean Meal \$20.00 Ton**

f. o. b. Michigan. A safer feed than Cotton Seed Meal and costs less than half.  
Order today.

**Port Huron Storage & Bean Co.**  
Port Huron, Mich.

Please Mention The Michigan Farmer when writing to advertisers

### ATWATER KENT

SCIENTIFIC IGNITION  
For **FORD** All Models  
Equip your Ford with the same high quality ignition used as standard equipment on America's foremost cars. Write for Literature.  
Atwater Kent Mfg. Co., Dpt. Q Phila.  
SYSTEM COMPLETE INCLUDING 8 CABLES AND FITTINGS Price **11.75**



## OUR SERVICE DEPARTMENT

Always Give Name and Address When Sending Inquiries as Satisfactory Service Cannot be Given to Unsigned Letters

### LIABILITY ON MORTGAGE NOTE.

A and his wife buy a farm of B and get a joint deed. They give a note to B secured by a mortgage on the farm. B has to foreclose on mortgage, as A and wife are not paying interest and taxes. If the farm does not bring enough to satisfy the mortgage, can B take other property that A and wife own?—Subscriber.

The mortgagor is still liable for the balance of the note. The giving of the mortgage in no way relieves from the promise in the note to pay the full amount.—Rood.

### FIXTURES.

I rented a farm with all buildings on it. Can former tenant remove any building from the premises? The building, an out-door toilet, has been built for five years. Part of the material was supplied by owner. Now the former tenant refuses pay for his share and wishes to take the building.—O. P.

The tenant who erects a fixture on the rented premises may remove the same in the absence of agreement to the contrary, at any time before surrendering possession of the premises to the lessor, provided he can do so and leave the premises in substantially the same condition they were in before the fixture was erected.—Rood.

### A SHARE BASIS.

I rent a 140-acre farm, own all the horses and tools, and give half. What would you think a fair share to give of the milk and increase where I own the dairy cows? One owner in the community furnishes all stock and tools and receives two-thirds, except in dairy cows, when the renter receives half. Two-thirds of the feed is furnished by owner, except when buying feed, such as cottonseed meal, etc., then each stands half the expense.—F. J. B.

The neighbor referred to in your letter is following rental custom very closely when he furnishes all stock and tools and one-half of purchased feed, and received two-thirds of the crop sales and one-half of the dairy sales. It is also common in contracts for the tenant to furnish horses, one-half of the dairy cattle and purchased feed and to share on the half basis in both crops and live stock. The latter of course, is more favorable to the farm owner.

Somewhere between these two cases you are furnishing, and the trust would be an equitable division, depending upon the quality of the cows worthiness of the tenant. With good cows one-half of the milk and increase is very liberal to the tenant.—H. M. Elliot.

### PROBATING ESTATE.

Could an estate be sold without going through probate court if the heirs quit-claim deed? Would there be any inheritance tax to pay (value about \$4,000?) Father died, leaving property in his name. There is a wife and two children.—M. S.

A deed by the heirs passes the interest subject to the debts of the deceased without any administration; but buyers might not be found willing to accept such title. The inheritance is taxable as income, but must be reported to the United States revenue collector of the district within sixty days.—Rood.

### ROAD COMMISSION COMPENSATION.

Has a road commissioner the right to work his own team every day for wages, in addition to his commission fee?—R. C.

Act 57, of the Public Acts of 1921

fixes the compensation of township highway commissioners at the rate of four dollars per day for each day actually and necessarily devoted by them to the service of the township in the performance of the duties of their office.

Section 10 of Chapter 2 places the expenditure of the highway improvement fund under the direction of the township board, who have the authority to fix the price which may be paid for team services. There is nothing in the statute which prohibits the highway commissioner from using his own team on the highway. This, in addition to his compensation, is fixed by the board.—H. H. Partlow.

### FEEDING LANBLORD'S STOCK.

Am renting sixty acres on which I live. The owner also rents a farm of eighty acres. The renter on the eighty did not put out any oats. I put out twelve acres of oats. Can the owner take his share of the oats to other renter's granary to feed there? That would leave me to feed out of my share of grain alone. I would be feeding my grain to the owner's stock. I have no corn on this sixty, but have twelve acres on another farm. The renter on the eighty put out corn. Am I entitled to a share of their corn to help feed the owner's stock, or do I have to furnish corn from my own field?—G. L. W.

There is no connection between the tenants of the two places. The fact that the lessor happens to be the same person is an immaterial circumstance. The owner of the land has the right to do what he pleases with his oats; but in the absence of contract providing otherwise he would have to furnish the feed for his own stock.—Rood.

### AMOUNT CONVEYED.

I paid for forty acres. Do I lose the road? That is, do I get a full forty without the road, or do they measure from the middle of the road?—T. M.

Only the property embraced in the description passes, be it more or less. The recital that it is forty acres will not entitle the buyer to more, nor deprive him of the excess. If he bought it for a lump sum he can recover no damages in the absence of proof of actual intent to defraud. If he bought at a price per acre, he can recover back the excess paid, or may be compelled to pay for the amount the payments are short of the measured amount. The purchaser of a tract of land adjoining the highway takes to the edge of the grantor's tract, though that be to the far side of the highway, as sometimes happens. The land under the highway does not belong to the public as a general rule.—Rood.

### WEEVIL IN GRANARY.

Every summer our granary is infested very badly with a small worm that gets into the grain, which I think is called the weevil. We cannot keep any grain through the summer without it gets wormy. Can you inform me if there is any method of getting rid of the worms? If there is any medicine for that purpose, please inform me where it can be obtained.—L. G. H.

Fumigate your granary with bisulfide of carbon. That will destroy all insects. Use one pound of the carbon for every one hundred bushels of grain. You should close the granary up tight. If there are cracks or openings, or if the windows or doors are loose, calk them up. You can nail cleats over these openings and remove them after the fumigation, if desired. You can calk up the small openings with cloth rags, or any way to make the building hold this gas long enough to accomplish the work.



**CONTROLS SCAB IN POTATOES.**

AN interesting experiment with potatoes was conducted this past summer on the farm of M. E. Parmelee, who lives near Hillards in Allegan county. The soil was known to be alkaline and therefore favorable to the development of scab on potatoes.

To test the value of sulphur as a control for scab, Mr. Parmelee applied to one plot of potatoes flowers of sulphur at the rate of 300 pounds per acre, and another plot he left untreated as a check. Recently these plots were harvested and with the aid of County Agent Gregg a most striking demonstration was made of the results.

The tubers from equal areas of these two plots were sorted into four grades as follows: Clean tubers, slightly infected, medium infected, and



Above Are Potatoes from the Treated Field and Below from the Untreated. From Left to Right they Are Graded from Clean to Unsalable.



unsalable. The pictures show these piles after they were sorted.

The treated plot yielded 42.05 per cent of clean tubers, while the untreated plot gave but 15.88 per cent.

Of the slightly affected potatoes the treated plot had 34.58 per cent, while the other had 21.9 per cent.

Of the medium affected potatoes, the treated lot brought forth only 13.08 per cent, while the untreated plot contained 25.33 per cent of this grade.

The greatest difference is seen in the unsalable pile where the treated plot contributed 10.28 per cent and the untreated plot 36.89 per cent.

Told in the number of bushels the story runs thus: The treated lot yielded 85.83 bushels of clean potatoes; 80.40 bushels of slightly affected; 30.41 bushels of medium affected, and 23.90 bushels of unsalable potatoes.

Compare that with the untreated plot which yielded but 36.98 bushels of clean potatoes; 50.90 of slightly affected; 58.89 of medium affected, and 85.72 bushels of unsalable.

**REAL HELP TO CELERY GROWERS.**

AN instance of the successful work being done by the Michigan State Farm Bureau Produce Exchange located at Detroit, was the handling of celery for the Decatur Cooperative Association.

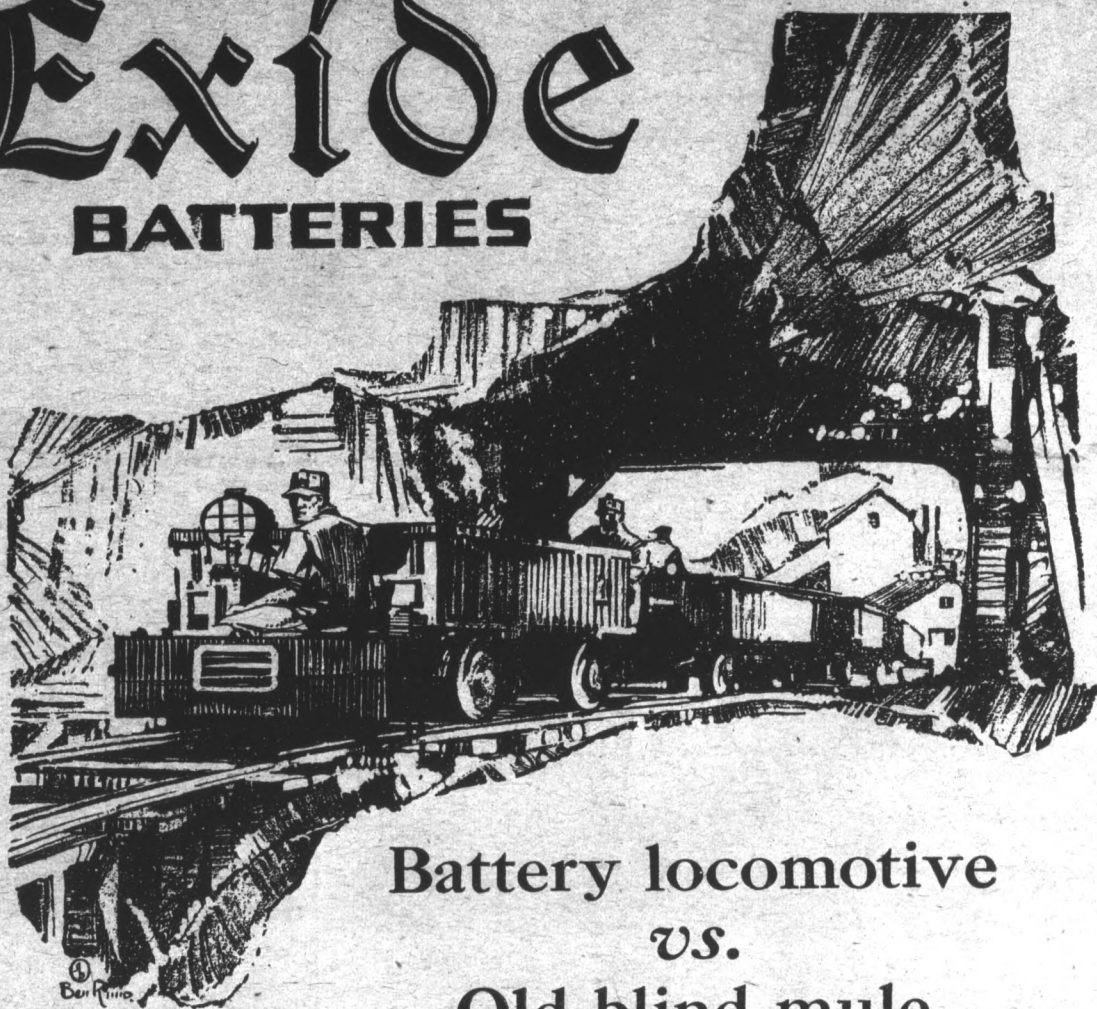
Over one hundred cars of celery were marketed by the exchange for the farmers of the Decatur district after the market had gotten in such bad shape that the producers had become thoroughly disheartened. The prices received showed consistent improvement from the sales of the first carload and the range was from twenty-five to seventy-five cents above what was offered by the cash buyers.

The celery was shipped in solid carload lots under refrigeration. It arrived in perfect condition and reached the consumer in the best possible shape for serving.

Do the children look as well as they did when they started back to school this fall? Maybe they miss that warm dish at noon. Why not a warm lunch served at school? It can be done.

To burn dead raspberry canes now will help control anthracnose next year.

# Exide BATTERIES



## Battery locomotive vs. Old blind mule

The old blind mule that hauls coal cars in a mine is being replaced by the mine locomotive. More coal we must have; and mine locomotives, propelled by Exide Batteries, have proved that they can handle more coal, save labor, and cut operating costs.

Industries of all kinds rely on the ready power of Exide Batteries. Exides provide current for the telephone system, for lighting railroad trains, ringing fire alarms, propelling trucks, and operating switches.

Most of the farm light and power plants have Exide Batteries. If yours is an Exide you already know its rugged strength and constant service.

Perhaps you are best acquainted with the Exide Battery made for starting and lighting automobiles. Exide was the original automobile battery. There is built into the Exide, made for your car, the experience of the oldest and largest manufacturers in the world of storage batteries for every purpose.

Exide is the long-life battery for automobiles and as such you will find it the most economical. It is the battery of dependable power and as such gives you the maximum comfort in motoring.

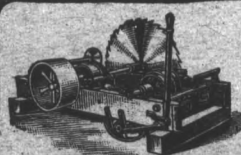
**The Electric Storage Battery Company Philadelphia**

Service Stations Everywhere  
Branches in Seventeen Cities



The nearest Exide Service Station has a battery the right size for your car. If your present battery needs repairs, no matter what make it is, it will be repaired skilfully and reasonably. If not in your telephone book, please write us for address.

### THE LONG-LIFE BATTERY FOR YOUR CAR



**SAW YOUR OWN LUMBER**  
with a Howell Portable Saw Mill. Turn your standing timber into high price building lumber at the mere cost of sawing. Big demand for lumber, lath and shingles. Keep your engine busy the year round making Big Money In Custom Sawing for your neighbors. Howell saw mills are made in several sizes suitable for tractors of any size. Also Edgers, Planers, Lath and Shingle machines. Write for free Catalog, B-5.  
**R. R. HOWELL & CO., Mfrs. Minneapolis, Minn.**



BOOK ON  
**DOG DISEASES**  
And How to Feed  
Mailed free to any address by the Author  
**H. CLAY GLOVER CO., Inc.**  
129 West 24th Street, New York

Please Mention The Michigan Farmer When Writing to Advertisers





## "Non-Skid" Soles

**N**O slipping or sliding with these sturdy "Grip" soles. You get a firm grip with every step. Farmers, miners, lumbermen and sportsmen need these soles to keep their footing in treacherous weather.

*This patented "Grip" sole is found ONLY on rubber footwear made by the Goodyear Rubber Co.*



### Cost Less Because They Last Longer

Rubber footwear with the famous Goodyear Gold Seal trademark will outlast three ordinary pairs. Its pure Para rubber won't crack, peel or leak. Expert workmen make each shoe from the best materials obtainable. For 69 years the Goodyear Gold Seal has identified the finest rubber footwear it is possible to make. Ask your dealer for the "Ligro" shown here—a popular member of the big Goodyear line. If he hasn't Gold Seal rubber footwear, write for the name of a dealer near you.

GOODYEAR RUBBER CO., of New York  
MILWAUKEE, WIS., Branch: 380-382 E. Water St.  
ST. PAUL, MINN., Branch: 371-377 Sibley St.

*Like the Sterling Mark on Silver*



## How Would \$6.50 A Day Extra Appeal To You?



"I have often made \$6.50 extra in one day", says Mr. C. A. Patterson of Ohio. Mr. Patterson has been using his spare hours for a number of years and enjoys many easy commissions from friends and neighbors who have been buying from him ever since he started.

### YOUR SPARE TIME IS WORTH MONEY

We also pay some of our workers for their full time at certain periods of the year selling Globe-Seal Motor Oil, Greases and Roof Coating. Altogether during the past year we have received nearly 21,000 orders. You may share in this business and you do not need previous selling experience to succeed. This applies to both men and women.

#### MAIL THIS COUPON TODAY - - -

The Globe Refining Co.,  
615 National Bldg.,  
Cleveland, Ohio.

Gentlemen:

I am interested. Please tell me without any obligation all about your plan.

Name ..... R. F. D. ....

Town ..... State ..... Co. ....

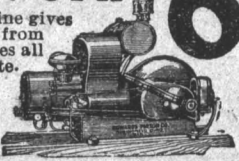
## My Engine Will Do the Work of 6



Write now for facts about this wonder engine. Same engine gives 1 1/2 to 6 H. P. Gasoline or kerosene, portable, light and free from vibration. No cranking. Pumps, saws, grinds and does all chores. Plenty of power for every purpose. Easy to operate.

### Low Factory Price --- Special Offer

Price now lower than before war. Tremendous value. Write at once for catalog and special offer on this amazing engine. The Edwards Motor Co., 819 Main St., Springfield, O.



### LAKE LAND FUR EXCHANGE

Dealing exclusively in raw, dressed and ready made furs

from all sections of the Great Lakes. We are not the largest concern, or the smallest, the richest concern, or the poorest. But ship us your furs and be convinced that we will pay you as much or more money and give you better treatment than the largest or richest house you ever dealt with. Write for price list and prevailing Market changes throughout the season.

SALEM, MICH.



When Writing to Advertisers Please Mention  
The Michigan Farmer

## Francisco Farm Notes

By P. P. Pope

### Wintering Beef Culls

**E**ACH day sees less of daylight and each night means more of frost, and as the days grow shorter and the nights cooler, the cattle draw more and more toward the shelter of the barn lots. They are no doubt thinking of their winter rations and their actions are causing us to think likewise. It is an important subject, this rationing of the herd, and is well worthy of careful study. Our problem differs from that of the dairyman, in that his chief consideration is a well-balanced ration for his cows in milk, while our problem of first importance is the proper development of the young stock.

We like to have the calves dropped in the spring and run with their dams on the pasture their first summer, so that when fall comes they are big and lusty, and ready to go into the box stalls and depend largely upon the feed box and the hay rack and thus release the drain upon the mother. We find more time after the fall work is done to get acquainted with the calves and give the young things the attention necessary for their best development. With the beef breeder the first essential for success, next perhaps, to the selection of the herd bull, is the strong development of the young stock. Here lies the important part of his winter's job, and we will have more to say about the details of it in the near future.

The end sought in the feeding and management of the herd of beef breeding cows is, of course, to maintain them in such thrift and flesh as will enable them best to give birth to and suckle well their offspring with as small a use of expensive feeds as possible. It is not necessary or advisable to feed heavily of grain or concentrated feeds. Neither do we believe it desirable to deprive them entirely of grain. The cow that weans her calf in the fall should be fed so as to insure strong development of the new calf which is expected to arrive in the spring, and at the same time maintain her own body in a thrifty, not fat, condition. This will usually mean that she should gain gradually in weight, somewhat more than enough to account for the growth of the foetus. There is nothing to gain and plenty to lose by so stinting the feed that the cows run down noticeably in flesh. This sort of management, or mismanagement, will result only in the necessity for more lavish feeding later to make up for the neglect, and it is always more difficult and more expensive to feed up run-down cattle than to maintain good condition. We have found the most satisfaction and, I am convinced the most economical, results from a constant effort to keep the breeding herd in a good, vigorous, thrifty condition throughout all the year.

Where good pastures are available during the grazing season, and a good supply of cheap roughages are at hand for the winter, the cost of grain feeding need not be excessive. Corn silage of good quality is one of the best feeds to use as the principle part of the winter ration, and if good clover or alfalfa hay is available as a supplement, no additional grain need be fed.

Last winter our cows and the two-year-old heifers received one bundle of shock corn, such as the corn binder ties, each per day, at the evening feed, and in addition a light feed of alfalfa in the morning and bean pods at noon. This ration was fed only for about sixty days after coming off the grass, when corn stover took the place of the shock corn, and although no more grain was fed the rest of the winter the cattle came through in ideal condition.

This year we have an abundance of the coarser roughages, such as corn stover, bean pods, mixed hay, straw, and beet tops. Except for the hay these products are practically unmarketable, and the cows give admirable assistance in working them over into fertilizer.

Until the calves are entirely weaned and the cows dried off, which will be around the first of the new year, we will feed a small amount of shock corn in the bundle, and if we can make the shift without too great a difference, we will exchange some of the mixed hay for alfalfa. We are very partial to alfalfa. It gives a thrift and bloom which we do not easily secure from any other feed. We were unfortunate in losing our stand during the severe weather of last winter, so if we have it to feed this winter it will be necessary to prevail upon some of the good neighbors who have a surplus.

The tops from the sugar beet fields we are feeding now, while the cattle are still on the pastures, at the rate of a bushel to each cow at a feed. They

### Saves 36 Hours

**B**Y building in a new hay shoot F. H. Stoepel saves three minutes every time he feeds his cows. In a year he gets ahead over thirty-six hours time by having this little convenience. He could spend two days installing it and still be ahead time enough to go fishing or to spend two days at other work.

Your short-cut—what can it be? Send a brief letter telling us what it is. A pair of combination cutter pliers goes to each of five persons sending us the best suggestion on short-cuts in the stables. Just address your letter to the Handy Man, Michigan Farmer, Detroit, Mich., and he will look after the rest.

are an excellent food and greatly relished by the cattle but should not be fed in too great quantities for the best results. Their food value closely approaches that of corn silage, being considerably richer in protein but lower in carbohydrates and fat. The excessive content of oxalic acid, however, is liable to cause injurious effects if fed too liberally.

### FOR HEALTH PROMOTION.

To promote better health in Michigan, twenty-five lectures are being prepared by a joint committee of representatives from the state medical societies, the state dental society, the State Department of Health, and the University of Michigan. It is hoped to bring this important information to every home in Michigan.



**GRAPE-GROWING COSTS.**

GRAPE growers will be interested in figures on the cost of producing grapes in the vineyard maintained by the Geneva Experiment Station at Fredonia, New York. These figures cover a six-year period, including most of the war period and immediately after when labor and materials were high, and account for every expense in the growing of grapes from the interest on the investment and taxes through the cultivation and care of the vineyard to the harvesting of the crop. During three of these six years the selling price of the grapes was also above normal, but the high cost of production has netted only a moderate profit on the venture.

The average annual cost of growing grapes in the station vineyard at Fredonia was \$85 per acre for the six-year period. The average cost per ton of grapes was \$30.80 for the same period. During these six years the vineyard produced on the average 2.69 tons of grapes per acre, which is much above the average for this section. The average selling price for grapes from this vineyard was \$76.32 per ton for the six years. This gives an average net profit of \$38.90 per ton of grapes, or \$109.25 per acre for the vineyard.

"The costs and profits fluctuate widely from year to year," says the station specialist, "so that a large return one season may be offset by a much smaller profit the next year. Only by maintaining yields at a high level can the grape grower hope to obtain a satisfactory return on his investment and on cost of labor and materials."

**POULTRY MANURE FOR FRUIT.**

SOMETIMES I have planted fruit trees in corners of the yard or garden where the soil has been in sod and the spot difficult to cultivate. In such cases I have placed a thick ring of poultry manure in a circle around the tree but not nearer than two feet to the tree. The circle of manure has been about two feet wide and at least two inches thick.

This manure kills out the sod and the rains soon wash down the plant food where it is available to the tree roots. Within a short time after applying poultry manure I have noticed that the young fruit trees show signs of new life and rapidly develop a very healthy green tinge to the foliage.

On poultry ranges that have to be in clover sod to provide green food for the birds, I have tried the ring of poultry manure and noticed a great improvement in the growth and healthy appearance of the young trees. I have tried the manure on one tree and omitted it from the next as a check on the growth. The great improvement in the manured tree has been very noticeable soon after the first hard rain.

—R. G. Kirby.

**ABOUT GARDEN BUGS.**

After the garden crops are harvested it often pays to rake up the old stalks and burn them. This may destroy insect pests and fungous spores which would cause losses next year. If any weeds have developed seeds they can also be burned.

The term "wireworm" is applied to numerous forms of elongated wire-like creatures, the larvae of snapping or click beetles and the name was given to them on account of their firm texture, which is much different from that of most insect larvae.

It is a well-known fact that the ladybird beetles are very beneficial, and this is proven in many ways. One scientist records where these insects have eaten fifty to sixty aphids in a single day and there are several records where they have eaten a hundred in the same length of time.

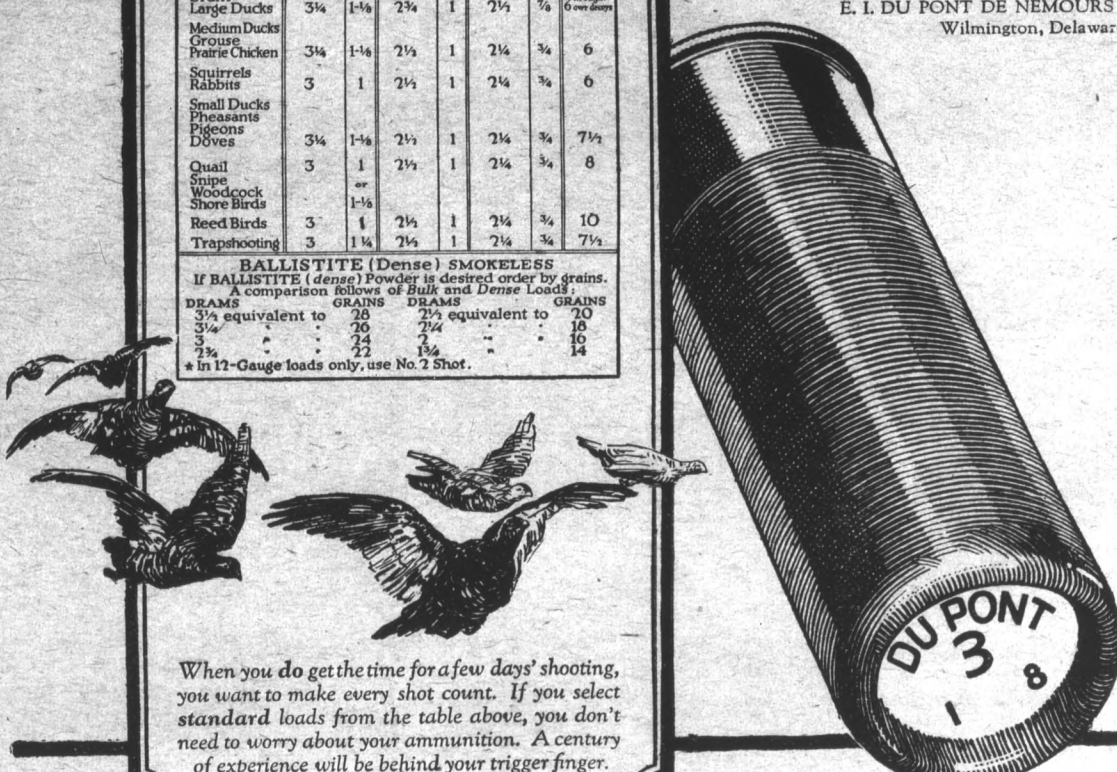
**STANDARD LOADS of**  
**DU PONT**  
**SHOTGUN POWDERS**

Kind of Game	DUPONT (Bulk)		SMOKELESS		SHOT SIZE ALL GAUGES
	12 GAUGE oz DRAMS SHOT	16 GAUGE oz DRAMS SHOT	20 GAUGE oz DRAMS SHOT	28 GAUGE oz DRAMS SHOT	
Turkey	3 1/2	1 1/2	2 1/4	1	2 1/2
Geese	3 1/2	1 1/2	2 1/4	1	7/8
Brant	3 1/2	1 1/2	2 1/4	1	7/8
Large Ducks	3 1/2	1 1/2	2 1/4	1	7/8
Medium Ducks	3 1/2	1 1/2	2 1/4	1	7/8
Grouse	3 1/2	1 1/2	2 1/4	1	3/4
Partridge	3 1/2	1 1/2	2 1/4	1	3/4
Squirrels	3	1	2 1/4	1	3/4
Rabbits	3	1	2 1/4	1	3/4
Small Ducks	3 1/2	1 1/2	2 1/4	1	7/8
Pheasants	3 1/2	1 1/2	2 1/4	1	7/8
Pigeons	3 1/2	1 1/2	2 1/4	1	7/8
Doves	3 1/2	1 1/2	2 1/4	1	7/8
Quail	3	1	2 1/4	1	3/4
Snipe	3	1	2 1/4	1	3/4
Woodcock	3	1	2 1/4	1	3/4
Shore Birds	3	1	2 1/4	1	3/4
Reed Birds	3	1	2 1/4	1	3/4
Trapshooting	3	1 1/4	2 1/4	1	3/4

**BALLISTITE (Dense) SMOKELESS**  
If BALLISTITE (dense) Powder is desired order by grains.  
A comparison follows of Bulk and Dense Loads:

DRAMS	GRAINS	DRAMS	GRAINS
3 1/2 equivalent to	28	2 1/4 equivalent to	70
3 1/4	26	2 1/4	68
3	24	2 1/4	66
2 3/4	22	2 1/4	64

\* In 12-Gauge loads only, use No. 7 Shot.



When you do get the time for a few days' shooting, you want to make every shot count. If you select standard loads from the table above, you don't need to worry about your ammunition. A century of experience will be behind your trigger finger.

Du Pont makes powder — not shells. Du Pont Powders are loaded in every brand of shell. The name "DU PONT" or "BALLISTITE", printed on the carton and the top shot wad, tells you what powder you are shooting. Specify the powder when you buy the shell.

E. I. DU PONT DE NEMOURS & CO., Inc.  
Wilmington, Delaware

What every man wants in a shotgun powder is given him in "Du Pont" and "Ballistite" . . . . . that means confidence — and that means a full game bag. Is that not reason enough to look for the name on the carton and top shot wad?

**SHOOT DU PONT POWDERS**



**SOLVAY**  
PULVERIZED  
LIMESTONE

**TROPHY of SUCCESS**  
—Nail it to the Barn Door

Soil kept rich and fertile produces big harvests. Solvay sweetens the soil and brings all crops to quick, complete maturity. Highest test. Purest form. Easy to spread. Non-caustic—will not burn. Write for FREE Booklet.

**THE SOLVAY PROCESS CO.**  
Sales Agent, WING & EVANS, Inc.  
625 Book Building, DETROIT, MICH.

**and don't forget**  
**It Makes Fertile Fields**



**KELLY-DUPLEX COMBINATION CUTTER and Grinding Mill**



Grinds alfalfa, corn fodder, clover hay, peas, vine hay, sheaf oats, kafir corn and milo maize in the head, either separately or mixed in varied proportions with corn on the cob, with or without shucks, oats, rye, barley, corn and all other grains. FULLY GUARANTEED. Four plates—a double set, grinding at the same time accounts for its large capacity. This machine has three sets of change feed gears. Perfect regulation, fine, medium or coarse grinding. For capacity, easy running and uniform grinding, the Kelly-Duplex can't be beat. Especially adapted for Gasoline Engines. Write for free catalog. DUPLEX MILL & MFG. CO., Box 308, Springfield, Ohio

**FARMERS! BURN WOOD**  
USE AMERICAN "HI-YIELD" SAW FRAMES

Built Strong for Hard Service  
Saw Frames, Blades, Pulleys  
Moulds, Belting, Wood-sawing Machinery,  
etc., etc. of every description.  
"A Style for Every Purpose"  
Write for my catalogue now

Geo. J. Wettschurack, La Fayette, Ind.



**Buy Your Fruit Trees At Once**  
Insure variety, prompt delivery and special low prices. Our handsome, vigorous peach, apples, cherries, berries, guaranteed healthy and true to name. Order now—pay next spring. Write for our beautiful catalog. Celery City Nurseries, Box 206, Kalamazoo, Mich.

**LEARN AUCTIONEERING**  
at World's Original and Greatest School and become independent with no capital invested. Write today for free catalog. JONES NAT'L SCHOOL OF AUCTIONEERING, 28 N. Sacramento Blvd., Chicago, Ill. CAREY M. JONES, Pres.

Please Mention The Michigan Farmer When Writing to Advertisers



# Believe in Missionaries?

Our Weekly Sermon—By N. A. McCune

I HAVE been reading a most unusual little book, "On the Edge of the Primeval Forest," (Macmillan, New York), by Doctor Albert Schweitzer. He is doctor, three times over; first, a doctor of philosophy; second, doctor of theology, and last, doctor of medicine. All of which is an indication of the breadth and sweep of his mind. In addition, he is worthy to be a doctor of music, for he is the foremost player and interpreter of the great German musician, Bach, now living. But the real greatness of the man is revealed, not in his brain power, though that is great, (he became famous as an author before thirty, and his first book was translated into several languages),



but in his attitude toward life and duty. When he had made a reputation as a thinker on religious subjects while still comparatively young, he resolved to become a medical missionary. He says that he felt that unless he did he would be like the priest and the levite who passed by the wounded and dying man, without giving him any aid. As a result of his resolution he went in 1913 to Africa, as a medical missionary. But that is not all. He went at his own expense. Nor is that all, for he earned most of the money with which to finance his work, which requires about three thousand dollars a year, by his concerts on the pipe organ, in Paris and London. Perhaps I should have said that Schweitzer is an Alsatian, but he is well known in England, and is coming to be known in America.

The place which he chose as a site for work is in equatorial Africa, in a section controlled by the French government. He tells of his untoward experiences at first. There was no place to practice medicine, except out of doors. There the natives came to him at the rate of seven or more a day. Two thousand came the first nine months. Later, he fixed up a chicken-coop, so that he could work without being in the glare of the sun. Sunstroke is one of the worst diseases that the tropical dweller has to fear. If the sun shines on the bare head for a few minutes, it may mean high fever and delirium, lasting perhaps for many weeks.

A FEW years ago I read an article by a health enthusiast, who advocated eating nothing cooked. He said that if we lived the simple, natural life, we would be perfectly free of disease and would live to a great age, just as uncivilized tribes do. But the experiences of missionaries in Africa and other lands do not corroborate any such statements. This Doctor Schweitzer says that the native African has every disease known to his white brother, except cancer and appendicitis. Strange is it indeed, for us to be told that heart diseases are common, and insanity not uncommon.

The African negro is subject to the most ugly sores which spread and eat deeply, until he is in perpetual pain. Treatment of such sometimes requires weeks. Leprosy is common, many die of pleurisy and pneumonia. But the most difficult and fearful of all is the sleeping sickness. It requires two years, often, for it to run its course, and the final state is pitiable in the extreme, the patient sitting with his knees drawn up to the body, and unconscious. The disease is caused by

the bite of the tsetse fly. Let the author describe the treatment of one of the worst forms of sores. He says: "The sufferer must be put under an anaesthetic and the sore carefully scraped right down to the sound tissue, during which the blood flows in streams. It is weeks, perhaps months, before the sore is healed, and it will use up a case of bandages. What a sum it costs us, too, to feed the patient for so long. But what joy when—limping, indeed, for the healed wounds leave the foot permanently deformed, but rejoicing at his freedom from the old pain and stench—he steps into the canoe for the journey home!

THIS is what he says of a typical operation: "The operation is finished, and in the hardly lighted room I watch for the sick man's awakening. Scarcely has he recovered consciousness when he stares about him and ejaculates again and again, 'I've no more pain! I've no more pain!' His hand feels for mine and will not let it go. Then I begin to tell him and the others in the room that it is the Lord Jesus who has told the doctor and his wife to come to the Ogowe, and that white people in Europe give them the money to live here and cure the sick negroes. Then I have to answer questions as to who these white people are, where they live, and how they know that the natives suffer so much from sickness. The African sun is shining through the coffee bushes into the dark shed, but we, black and white, sit side by side and feel that we know the meaning of the words, 'And all ye are brethren'."

The incidental annoyances and difficulties are enormous. One night, elephants come and trample down the banana crop and ruin the season's work. Another time white ants invade the house before they are discovered, and destroy valuable boxes of medicines. But Christian optimism triumphs over everything.

THERE is much pessimism in the world at the present time. Recently some one asked, "Is the world growing better or bitter?" Disappointment over the results of the peace of Versailles is very great. Economic conditions are bad throughout the world. America is in the best condition of, probably, any nation on the globe, but even here we are beholding great distress, in many classes of people. This year the farmers have suffered the loss of a market for their products. Thousands of bushels of peaches, apples, potatoes, have been unable to find buyers. There is much unrest among industrial classes. In the light of these facts it is refreshing to look into the life of a man who has given his life to promote brotherhood and healing among the most opposing conditions, and whose optimism is as bright as the evening star. When we read a book of this sort it makes us feel silly, to think how we have wailed over our misfortunes, and whined over our reverses. It shames us into a more manly attitude. It says to us, "Come, come, stop this everlasting growling. You don't know what hard luck is. Where is your Christianity? Where is your faith in the rule of a wise God? If your back is to the wall, you can at least die fighting, and without whimpering."

### SUNDAY SCHOOL LESSON FOR NOVEMBER 26.

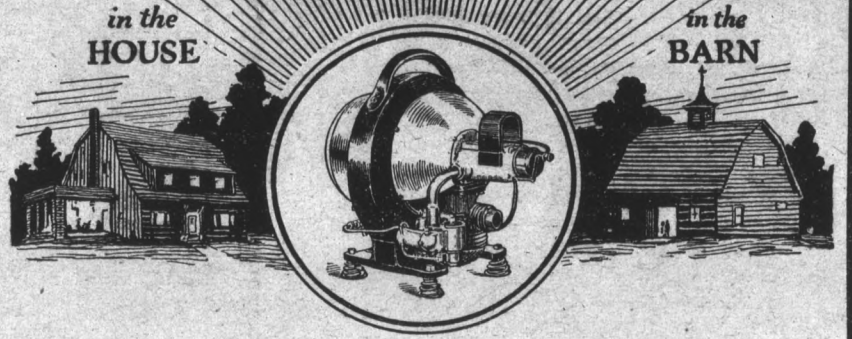
SUBJECT:—"Jesus the Great Missionary."

LESSON:—Luke 8.

GOLDEN TEXT:—The Son of Man came to seek and to save that which was lost. Luke 19:10.

# HOMELITE

The PORTABLE Electric Light and Power Plant



You Can Have  
**Electric Light and Power**  
On Your Farm for  
**\$178.00**

32 volt HOMELITE PLANT without batteries  
with batteries, \$245.00  
F. O. B. East Orange, New Jersey

WILL supply 20 to 25 brilliant electric lights in your home, barns, and other buildings, and give power for other uses up to 1/2 horsepower, such as cream separator, washing machine, pumps, grinder, etc.

Weights only 100 lbs.—carry it anywhere. No foundation required—safe, economical, convenient, time and money saving.

TIME PAYMENT IF DESIRED  
Write today for full particulars of this marvel of compact efficiency

**The Simms Magneto Company**

273 North Arlington Avenue, East Orange, New Jersey

Attractive proposition to live dealers

## 36-Inch Sheep-Lined Moleskin Coat

Extra Fine Quality

with 4 pockets and belt. Best sheep lining, heavy lined sleeves, 8-inch Beaver collar, wind protectors in sleeves, belt all around, leather tipped pockets, heavy moleskin top.  
Sizes 36 to 50. **\$8.75**



## U. S. ARMY Brand New Hob or Field Shoes With or Without Hob Nails

Made of the toughest leather obtainable; water proof; extra heavy soles. The ideal shoe for miners, lumbermen, farmers, railroaders, etc. Very comfortable; all sizes.  
Cost The Government \$7.40 A Pair  
**\$3.45**

Khaki Shirts, 2 pockets and flaps, all sizes **\$1.25**  
U. S. Army Khaki Breaches **\$1.95**

Wool Spiral Puttees, fit any size legs; water proof **65c**  
High Hunting Shoes worth \$14.50, all sizes **\$8.75**  
Men's Navy wool pullover sweaters, sizes 36 to 46, **\$3.45**  
U. S. Army Reclaimed Raincoats in good condition **\$1.95**  
U. S. Army Brand New Rubber Hip Boots (7 to 13) **\$2.95**  
Navy wool underwear **\$1.19**  
Men's Army wool underwear shirt or draw **75c**  
Write for our latest catalogue listing hundreds of wonderful bargains.  
Cash or Money Order must accompany all orders. Add 20c for parcel post. Money refunded if goods are not entirely satisfactory.

**BRANFORD SALES CO.,**

Army & Navy Surplus Dept. M. F. 101-105 Branford Place, Newark, N. J.

## DON'T LET THEM DIE!

ACT QUICK! SAVE THEIR LIVES BY USING

**SMOKE EM**  
THE ROUP CURE. A scientific drugless cure for roup, colds, canker, diphtheria, and chicken pox. A discovery of the world's best known home of Holstein, Berkshires, and Leghorn Chickens. After losing thousands of dollars worth of our treasured birds from roup, we were determined to discover a cure. Since discovering and using "SMOKE EM" for three years we have not lost a chicken from roup. Sold under a money-back guarantee. Thousands of testimonials. You owe it to yourself and your poultry to write us today for our large catalogue fully describing this wonderful roup cure. The price is low. The U. S. Spar-Breeding Estate, Dept. 351 Thurmont, Md. J.

Galloway's Factory-to-Farm Plan now more popular than ever—means lower prices—bigger savings—easier terms than ever before. Your buying dollar is now as big as ever. Let me prove it. Write for catalog of Bargains—make comparisons and you'll be convinced Galloway offers biggest bargains.

**GALLOWAY'S**  
Lucky Pencil FREE To advertise Engines, Separators, Spreaders, and to introduce Galloway merchandise and acquaint you with Galloway's Factory-to-Farm Plan—we will send you one who writes us, and state what they are interested in, a Galloway catalog of Bargains and a Lucky Jumbo pencil free. Pencil will bring you good luck.  
WM. GALLOWAY CO.  
Dept 137 • Waterloo, Iowa

Stiff, picket-like star wires prevent sagging and sagging. Well crimped line wires act as live springs and keep fence tight and trim. Small, compact knot allows fence to fit hills and hollows yet never slip.

**Square Deal Fence**  
is trim looking, long lasting—economical. Heavy galvanizing keeps out rust; full gauge wires guarantee full strength.  
FREE—Copy of Ropp's New Calculator (answers 75,000 farm problems) to land owners who write for Square Deal catalog.  
**Keystone Steel & Wire Co.**  
4912 Industrial St., Peoria, Ill.

**Square Deal Fence**  
is trim looking, long lasting—economical. Heavy galvanizing keeps out rust; full gauge wires guarantee full strength.  
FREE—Copy of Ropp's New Calculator (answers 75,000 farm problems) to land owners who write for Square Deal catalog.  
**Keystone Steel & Wire Co.**  
4912 Industrial St., Peoria, Ill.

**FREE BOOK on CONTAGIOUS ABORTION**  
Describes cause, effects and treatment; tells how farmers in all parts of U. S. are stopping the ravages of this costly malady.  
Write for free copy today.  
ABORNO LABORATORY  
44 Jeff Street, Lancaster, Wis.

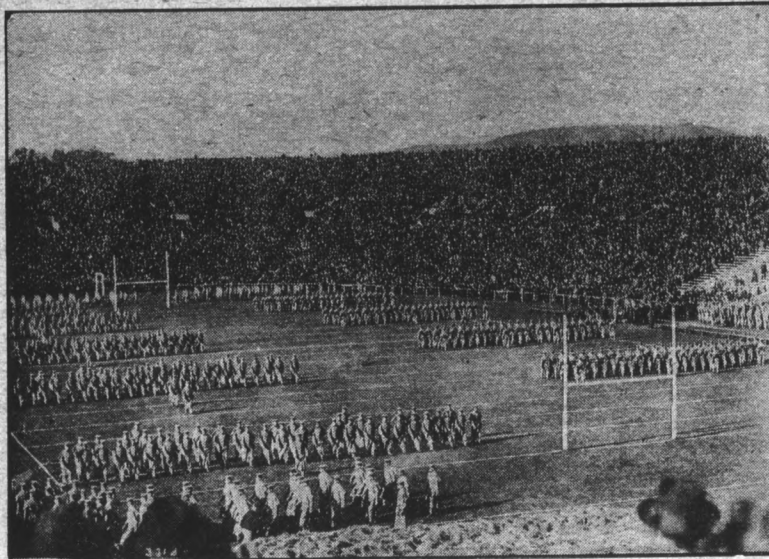
GET IT FROM THE FACTORY DIRECT  
**KITZELMAN FENCE**  
"Saved One-Third," writes Wm. B. Lee, Stanton, Mich. You, too, can save. We pay the freight. Write for Free Catalog of Farm, Foultry, Lawn Fence.  
**KITZELMAN BROS. Dept. 278 MUNCIE, IND.**  
Mention The Michigan Farmer When Writing Advertisers



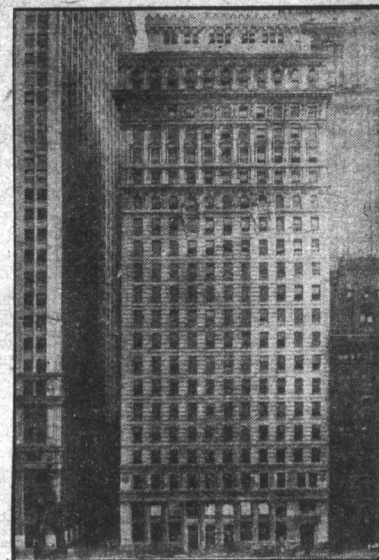
# WORLD EVENTS IN PICTURES



This "saddle horse" recently won a race with a dog at city ostrich farm, San Diego, California.



West Pointers, the "best drilled troops in the world," thrilled 76,000 spectators with an exhibition drill before the game where the Elis and the army fought to a tie, the score being 7-7.



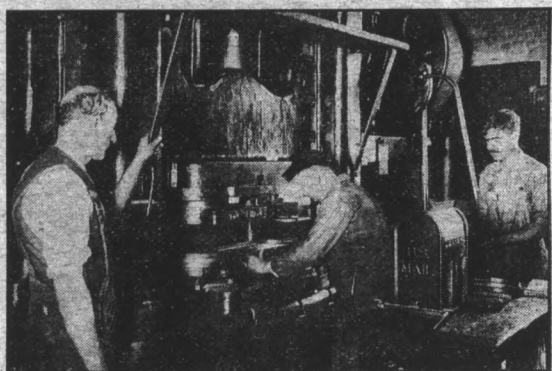
"No. 100 Broadway" where 15,000 agents are directed from home office of American Surety Co.



What one might see along the Orient Express—refugees stacking their household belongings along the tracks, and even on top of box cars, in their flight before the Turks.



Part of the new rulers of Italy—a woman's meeting of the Fascisti where the "camicia nera" (black shirt) has been endorsed as the symbol of the order.



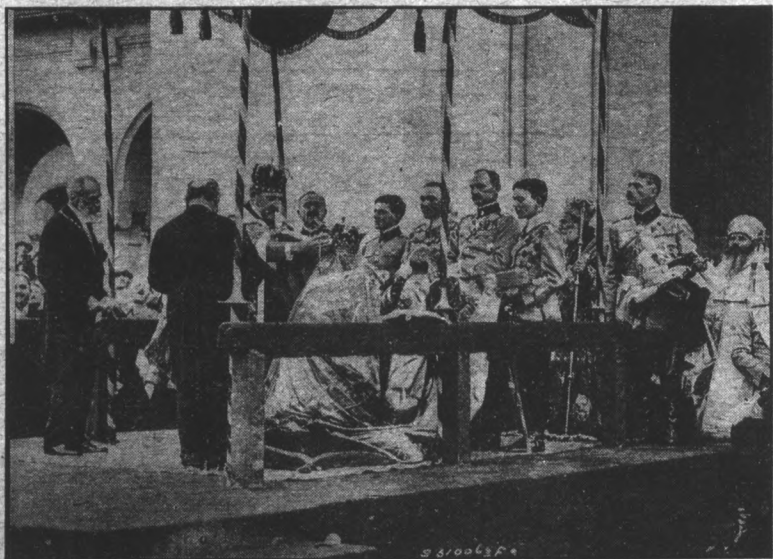
The Washington navy yard is now busily engaged in turning out 10,000 mail boxes, the first of which has been delivered to P. O. Dept.



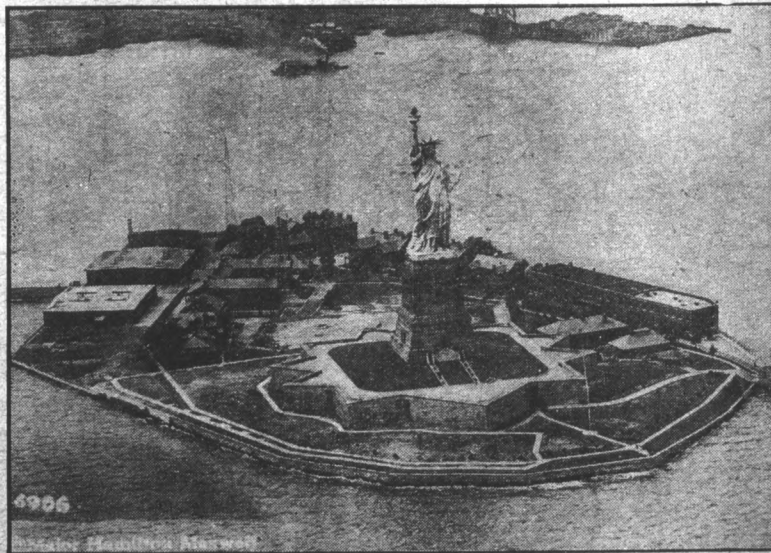
After escape from Japanese "Korea's Joan of Arc," arrives in America to study at university.



President Kelenin, of the Central Committee of all Soviets in Russia, spends much time visiting the farmers of the county.



The war delayed the crowning of King Ferdinand and Queen Marie for eight years. The king is here shown placing the golden crown on the head of his queen, Marie.



A unique airplane view of the Statue of Liberty, Bartholdi's bronze greeting to our new Americans and to our visitors from Europe and other foreign countries.



# THE CROSS-CUT —By Courtney Ryley Cooper

© Copyright, 1921, By Little, Brown & Company

So this was the reason that Rodaine had acknowledged the value of the mine that day in court! This was the reason for the mysterious offer of fifty thousand dollars and for the later one of nearly a quarter of a million! Rodaine had known; Rodaine had information, and Rodaine had been willing to pay to gain possession of what now appeared to be a bonanza. But Rodaine had failed. And Fairchild had won.

Won! But suddenly he realized that there was a blankness about it all. He had won money, it is true. But all the money in the world could not free him from the taint that had been left upon him by a coroner's investigation, from the hint that still remained in the recommendation of the grand jury that the murder of Sissie Larsen be looked into further. Nor could it remove the stigma of the four charges against Harry, which soon were to come to trial, and without a bit of evidence to combat them. Riches could do much—but they could not aid in that particular, and somewhat sobered by the knowledge, Fairchild turned from the main road and on up through the high-piled snow to the mouth of the Blue Poppy mine.

A faint acrid odor struck his nostrils as he started to descend the shaft, the "perfume" of exploded dynamite, and it sent anew into Fairchild's heart the excitement and intensity of the strike. Evidently Harry had shot the deep hole, and now, there in the chamber, was examining the result, which must, by this time, give some idea of the extent of the ore and the width of the vein. Fairchild pulled on the rope with enthusiastic strength, while the bucket bumped and swirled about the shaft in descent. A moment more and he had reached the bottom, to leap from the carrier, light his carbide lamp which hung where he had left it on the timbers, and start forward.

The odor grew heavier. Fairchild held his light before him and looked far ahead, wondering why he could not see the gleam from Harry's lamp. He shouted. There was no answer, and he went on.

Fifty feet! Seventy-five! Then he stopped short with a gasp. Twisted and torn before him were the timbers of the tunnel, while muck and refuse lay everywhere. A cave-in—another cave-in—at almost the exact spot where the one had occurred years before, shutting off the chamber from communication with the shaft, tearing and rending the new timbers which

had been placed there and imprisoning Harry behind them!

Fairchild shouted again and again, only gaining for his answer the ghost-like echoes of his own voice as they traveled to the shaft and were thrown back again. He tore off his coat and cap, and attacked the timbers like the fear-maddened man he was, dragging them by superhuman force out of the way and clearing a path to the refuse. Then, running along the little track, he searched first on one side, then the other, until, nearly at the shaft, he

But there was no answer. Again he shouted then he returned to his work, his heart aching in unison with his muscles. Behind that broken mass, Fairchild felt sure, was his partner, torn, bleeding through the effects of some accident, he did not know what, past answering his calls, perhaps dead. Greater became the hole in the cave-in; soon it was large enough to admit his body. Seizing his carbide lamp, Fairchild made for the opening and crawled through, hurrying onward toward the chamber where the stope be-

## CHAPTER XX.

### Fairchild Receives a Note.

IT was as though the shades of the past had come to life again, to repeat in the twentieth century a happening of the nineteenth. There was only one difference—no form of a dead man now lay against the foot wall, to rest there more than a score of years until it should come to light, a pile of bones in time-shredded clothing. And as he thought of it, Fairchild remembered that the earthly remains of "Sissie" Larsen had lain within almost a few feet of the spot where he had drilled the prospect hole into the foot wall, there to discover the ore that promised bonanza.

But this time there was nothing and no clue to the mystery of Harry's disappearance. Fairchild suddenly strengthened with an idea. Perhaps, after all, he had been on the other side of the cave-in and had hurried on out of the mine. But in that event, would he not have waited for his return, to tell him of the accident? Or would he not have proceeded down to the Sampler to bring the news if he had not cared to remain at the tunnel opening? However, it was a chance, and Fairchild took it. Once more he crawled through the hole that he had made in the cave-in and sought the outward world. Then he hurried down Kentucky Gulch and to the Sampler. But Harry had not been there. He went through town, asking questions, striving his best to shield his anxiety, cloaking his queries under the cover of cursory remarks. Harry had not been seen. At last, with the coming of night, he turned toward the boarding house, and on his arrival, Mother Howard, sighting his white face, hurried to him.

"Have you seen Harry?" he asked. "No—he hasn't been here."

It was the last chance. Clutching fear at his heart, he told Mother Howard of the happenings at the mine, quickly, as plainly as possible. Then once more he went forth, to retract his steps to the Blue Poppy, to buck the wind and the fine snow and the high, piled drifts, and to go below. But the surroundings were the same: still the cave-in, with its small hole where he had torn through it, still the ragged hanging wall where Harry had fired the last shots of dynamite in his investigations, still the trampled bit of fuse with its cap attached. Nothing more. Gingerly Fairchild picked up the cap and placed it where a chance kick could not explode it. Then he returned to the shaft.

Back into the black night, with the

## THE ROOSTER

By Bob Adams

The rooster is a lusty bird;  
In all the land his voice is heard,  
A proud and haughty bird by heck  
Who flaps his wings and curves his neck.  
From east to west, from perch to pole,  
His morning bugle echoes roll,  
Arousing men from snoring deep  
And maidens from their beauty sleep.  
He hunts for worms with main and might,

And finding one, with huge delight,  
To whet his harem's appetite,  
He calls his wives with trill and hum,

Then—honor great but manners bum—  
He eats it up before they come.  
Now, whether Red or Plymouth Rock,  
One-half is he of all the flock,  
And chickens mostly favor dad  
In qualities both good and bad.  
But when the hatching season's over,  
We must restrain this gallant rover,  
Must shut him up in lonely state  
And keep the layers celibate.  
Their eggs will thus repay our toil  
When fertile ones would quickly spoil.  
The man who'd be a fresh egg booster  
Must segregate that old he-rooster.

came upon a miner's pick and shovel. With these, he returned to the task before him.

Hours passed, while the sweat poured from his forehead and while his muscles seemed to tear themselves loose from their fastenings with the exertion that was placed upon them. Foot after foot, the muck was torn away, as Fairchild, with pick and shovel, forced a tunnel through the great mass of rock debris which choked the drift. Onward—onward—at last to make a small opening in the barricade, and to lean close to it that he might shout again. But still there was no answer.

Feverish now, Fairchild worked with all the reserve strength that was in him. He seized great chunks of rock that he could not even have budged at an ordinary time and threw them far behind him. His pick struck again and again with a vicious, clanging reverberation; the hole widened. Once more Fairchild leaned toward it. His breath came short from the heavy exertion and fear gripped his heart.

"Harry!" he called. "Harry "

gan, calling Harry's name at every step, in vain. The shadows before him lengthened, as the chamber gave greater play to the range of light. Fairchild rushed within, held high his carbide and looked about him. But no crumpled form of a man lay there, no bruised, torn human being. The place was empty, except for the pile of stone and refuse which had been torn away by dynamite explosions in the hanging wall, where Harry evidently had shot away the remaining refuse in a last effort to see what lay in that direction—stones and muck which told nothing. On the other side—

Fairchild stared blankly. The hole that he had made into the foot wall had been filled with dynamite and tamped, as though ready for shooting. But the charge had not been exploded. Instead—on the ground lay the remainder of the tamping paper and a short foot and a half of fuse, with its fulminate of mercury cap attached, where it had been pulled from its berth by some great force and hastily stamped out. And Harry—

Harry was gone!

## AL ACRES—Al Enlightens His Teacher by Giving a New Name to an Old Method

—By Frank R. Leet.





winds whistling through the pines. Back to wandering about through the hills, hurrying forward at the sight of every faint, dark object against the snow, in the hope that Harry, crippled by the cave-in, might have some way gotten out of the shaft. But they were only boulders or logs or stumps of trees. At midnight, Fairchild turned once more toward town and to the boarding house. But Harry had not appeared. There was only one thing left to do.

This time, when Fairchild left Mother Howard's, his steps did not lead him straight toward Kentucky Gulch. Instead he kept straight on up the street, past the little line of store buildings and to the courthouse, where he sought out the sole remaining light in the bleak, black building—Sheriff Bardwell's office. That personage was nodding in his chair, but removed his feet from the desk and turned drowsily as Fairchild entered.

"Well?" he questioned, "what's up?"  
"My partner has disappeared. I want to report to you—and see if I can get some help."

"Disappeared? Who?"  
"Harry Harkins. He's a big Cornishman, with a large mustache, very red face, about sixty years old, I should judge—"

"Wait a minute," Bardwell's eyes narrowed. "Ain't he the fellow I arrested in the Blue Poppy mine the night of the Old Times dance?"

"Yes."

"And you say he's disappeared?"

"I think you heard me!" Fairchild spoke with some asperity. "I said that he had disappeared, and I want some help in hunting for him. He may be injured, for all I know, and if he's out here in the mountains anywhere, it's almost sure death for him unless he can get some aid soon. I—"

But the sheriff's eyes still remained suspiciously narrow.

"When does his trial come up?"

"A week from tomorrow."

"And he's disappeared." A slow smile came over the other man's lips. "I don't think it will help much to start any relief expedition for him. The thing to do is to get a picture and a general description and send it around to the police in the various parts of the country! That'll be the best way to find him!"

Fairchild's teeth gritted, but he could not escape the force of the argument, from the sheriff's standpoint. For a moment there was silence, then the miner came closer to the desk.

"Sheriff," he said as calmly as possible, "you have a perfect right to give that sort of view. That's your business—to suspect people. However, I happen to feel sure that my partner would stand trial, no matter what the charge, and that he would not seek to evade it in any way. Some sort of an accident happened at the mine this afternoon—a cave-in or an explosion that tore out the roof of the tunnel—and I am sure that my partner is injured, has made his way out of the mine, and is wandering among the hills. Will you help me to find him?"

The sheriff wheeled about in his chair and studied a moment. Then he rose.

"Guess I will," he announced. "It can't do any harm to look for him, anyway."

Half an hour later, aided by two deputies who had been summoned from their homes, Fairchild and the sheriff left for the hills to begin the search for the missing Harry. Late the next afternoon, they returned to town, tired, their horses almost crawling in their dragging pace after sixteen hours of travel through the drifts of the hills and gullies. Harry had not been found, and so Fairchild reported when, with drooping shoulders, he returned to the boarding house and to the waiting Mother Howard.

(Continued next week).



Say, Maw, these WOBST FELT SHOES sure do take the bite out o' the bittin'est frost!

## Let Your Feet Know What Winter Comfort Is

One big drawback to winter is that rough weather and rough going are rough on the feet.

But the way is smoothed for those lucky feet that are shod with WOBST FELT SHOES!

When it's cold and wet, a clammy coldness seeps thru boots and leather shoes—but not thru WOBST FELT SHOES.

A sharp, dry frost will strike thru any leather—but not thru WOBST FELT SHOES.

The feet are the starting place of colds and other winter discomforts. With your feet warm and comfortable, you'll feel warm and comfortable all over.

Wool felt is the warmest material suitable for shoes. It also is the softest. So you can depend on WOBST FELT SHOES to keep your feet warm and comfortable.

If your dealer hasn't them, write us direct, mentioning his name.

WOBST SHOE CO.  
411-415 Vliet St. Milwaukee, Wis.

No. 755—  
Men's

Heavy black wool felt with leather foxing—combination felt and leather sole—rubber heel.



No. 739—  
Men's

The warmest shoe made—double felt vamp—best all wool felt sole.



No. 746—  
Men's

A heavy black felt hi-cut—very popular and inexpensive.



This label is inside the tongue.

# WOBST FELT SHOES

There is no **GIFT** for a Boy, a Girl, or a Family equal to a year of

## The Youth's Companion

"AMERICA'S CITIZEN BUILDER"

There is purpose, leadership and helpful suggestion in every page. Hundreds of Short Stories, Serial and Group Stories, Current Events, timely Editorials, Anecdotes, etc. The Boys' Pages, Girls' Pages, Family Pages include Baseball, Football, Tennis and other sports, and many practical suggestions for home efficiency and economy.

THE BIGGEST READING VALUE FOR YOUR FAMILY

All for \$2.50

EVERY NEW SUBSCRIBER who cuts out this slip and sends it with \$2.50 for The Youth's Companion for 1923 will receive:

1. THE 52 WEEKLY ISSUES OF 1923
2. All Remaining 1922 Weekly Issues
3. The Companion Home Calendar for 1923

THE YOUTH'S COMPANION, BOSTON, MASS.

52  
TIMES  
A  
YEAR

HOW TO BREAK AND TRAIN HORSES **FREE!**

Write for this amazing book NOW! A postcard will do! Learn how you can master the most vicious and ferocious horse in a few hours time. See how big money is being made in training and re-selling wicked-tempered and "ornery" horses. Book tells all about the famous Beery System of breaking and training horses—the system that is guaranteed to break any horse of its bad habits forever. Learn right in your own home—in your spare time. Book is fully illustrated and brimful of interesting pointers on horse training. Sent absolutely free to our address. Mail postcard NOW!

BEERY SCHOOL OF HORSEMANSHIP  
Dept. 4611A Pleasant Hill, Ohio

**Cylinder Grinding**

Scored cylinder repaired. Fly wheel gears replaced. A complete line of pistons, pins and rings for Autos, Trucks and Tractors.

**Sullivan-Shinnick Co.**  
442 High St., W. Detroit, Mich.  
We Pay Transportation

**MEN WANTED** to sell dependable fruit trees and shrubbery. Big demand. Complete cooperation. Commission paid weekly. Write for terms.

Willems, Son's Nurseries, Rochester, N. Y.

**DOGS**

**AIREDALE PUPS.** Sired by son of Tip Top. From registered stock. Champion Tinny dogs for farm homes and poultry. Males, \$15. Females, \$10. R. G. Kirby, R. 1, East Lansing, Mich.

**Fox Hounds,** Rabbit and Skunk dogs. All ages. Coon Hound Pups.

W. E. LECKY, Holmesville, Ohio

Please Mention The Michigan Farmer When Writing to Advertisers



Over 3,000,000 Users Endorse  
**New Kerosene Light**  
Beats Gas or Electricity



**BURNS 94% AIR**  
**Aladdin**  
MAKE your home bright and cheerful, saving one-half on oil. Scientific tests prove this wonderful new Aladdin 5 times as efficient as the best round wick open-flame lamps. 60 candle power pure white light for 50 hours on a gallon of common kerosene. No odor, smoke, noise or pumping up. Won't explode. **Guaranteed.**

**10 Days' Free Trial**

Prove to yourself by free trial that Aladdin has no equal as a white light. If not satisfied return at our expense.

**Get Yours Free** We want one user in each locality to whom customers can be referred. In that way you may get your own without cost. Be the fortunate one to write first for 10 day free trial and learn how to get one free.

**AGENTS WANTED** To demonstrate the Aladdin in territory where oil lamps are used. Experience or capital unnecessary. Many agents average five lamps a day and make \$600 a month. Write quick for territory and samples.

**\$1000.00 Will be REWARDED** given to anyone showing us an oil lamp equal to this Aladdin in every way. (Full details of this offer given in circular.)

**THE MANTLE LAMP COMPANY OF AMERICA**  
345 Aladdin Bldg., 609 W. Lake Street, Chicago, U. S. A.

**Stork Shop Packet**  
Is the friend You Need



Contains everything necessary for safety and comfort of Mother and Babe. The complete assortment fully endorsed by leading Physicians. 26 high grade sterilized articles carefully sealed in individual packages and put up in neat and substantial drop front container. You may need this handy packet soon—order now and be prepared. Our special price for the complete outfit \$5.00, postpaid in plain wrapper. Fully guaranteed. Your money back if not satisfied. References: Any commercial Agency, any Bank in Flint.

**THE STORKSHOP PHARMACIES**  
2417 Detroit St., Flint, Mich.  
A helpful booklet "Your Physician's Instructions," free to expectant Mothers on request. Write for your copy today.

**Comfort and Safety for Mother and Babe**  
CORD DRESSING SAFETY OIL CASTLE SOAP

**As Handy as Your Mailbox**

The bank with the largest number of depositors in the United States is just outside your door—when you use the Banking by Mail service of

**THE CLEVELAND TRUST COMPANY**  
CLEVELAND, OHIO

Resources more than \$170,000,000  
**4% INTEREST PAID**  
Ask for our booklet "Banking by Mail"

**Why Burn Coal**

When you can get twice the heat at half the cost, by installing, in 6 minutes time, Uni-Hete Oil-Gas Burner in your range or heater. Thousands of homes now ending coal expense! Uni-Hete generates gas from common kerosene—cheapest fuel known. Red hot fire instantly. Cooks, bakes, heats. Sets in fire box of any stove. **FREE TRIAL.** Saves its small cost in 30 days. Lasts for years. Made by factory making heating devices for 33 years.

**Agents—Special Offer—Act Quick**  
High coal cost makes Uni-Hete a big profit maker for agents. Write at once.

Acorn Brass Mfg. Co., 1132 Acorn Bldg., Chicago, Ill.

**HOOSIER STOVES & RANGES FREE**

To try in your home 30 days. Should you not like it return at our expense. Million members of families now using Hoosier Stoves, best made, the latest design and guaranteed for two years. Ask your dealer to show you "Hoosiers" or write us for our big free book showing photographs. Large assortment and sizes at a big saving. Send postal today.  
**HOOSIER STOVE CO.**  
131 State St. Marion, Ind.

**MILK BOTTLE CAPS \$1.00**  
WILL FIT ALL STANDARD MILK BOTTLES  
PARAFFINED AND PRINTED RED EYE DESIGN  
BOX CONTAINS 1750 LIP CAPS or 2000 WITHOUT LIP. PARCEL POST PREPAID—ORDER A BOX NOW. A BOX THE AMERICAN MILK CAP CO. 5 NORTHWESTERN STATION, DETROIT, MICH.

**TRIPLES YOUR LIGHT**  
Steel Mantled Lamp Burners  
Guaranteed to last for years. What you need for your kerosene lamps. Sample 40c or 3 for \$1.00 by mail. Agents wanted. Wonderful seller—big money-maker.  
**STEEL MANTLE LIGHT CO. (Not Inc.)**  
4226 Drexel Boulevard Chicago

Please Mention The Michigan Farmer when writing to advertisers

**Woman's Interests**

**Practical Thanksgiving Menus**

*By the Prize Winners*

JUDGING from the Thanksgiving menus received, Mr. Doctor is going to be rather busy on the morning of December 1. This assumption does not come from the quality or combination of the dinners, but rather from the abundance and wide variety. When just reading them made me hungry, I am sure that when your guests come to sit down to such a bountiful dinner, they will say, "Oh, my!" with a smile. But when the coffee is finished and it is time to adjourn to the living-room, they will be more apt to say, "Oh, dear!" with a sigh. Some very good menus were received and as a rule were both economical and practical. It will not be necessary to print all the recipes of each menu, but if others are desired than those that appear below, they may be had by sending a letter to the household editor.

**First Prize.**

- Mrs. B. B., Ravenna, Michigan.
- Oyster Soup
- Roast Turkey with Dressing
- Mashed Potato and Gravy
- Squash
- Creamed Onions
- Canned Peas
- Brown and White Bread, Butter
- Cranberry Sauce
- Pickles
- Coffee
- Pumpkin and Mince Pie
- Mints
- Oyster Stew

Boil one cup of oyster liquor and one-half cup water. Skim, add half-teaspoon salt, half-teaspoon pepper, a tablespoon of butter. When it begins to boil add one quart of oysters. Boil one minute. Add half-cup of cream or cold milk.

**Roast Turkey, with Dressing.**

Prepare turkey for roasting the day before. Melt butter and rub on inside of turkey, sprinkle with salt and pepper. Fill with dressing made as follows: Moisten stale bread with milk, squeeze dry, and add two eggs, piece of butter size of an egg. Salt, pepper and sage to taste.

Chop giblets, add water and cook till well done, and add to drippings, in roaster for gravy.

Now rub outside of turkey with butter, sprinkle with a little flour, salt, pepper and ginger. Put in roaster on back of stove and cook slowly until well steamed through. Then place in oven. Allow at least five hours for a ten- or twelve-pound turkey.

**Brown Bread.**

Two cups of sour milk. Two-thirds cup sugar, one teaspoon of salt, two small teaspoons of soda. Three cups graham flour and one cup of white flour. Bake slow, one and one-quarter hours.

**Cranberry Sauce.**

Place one quart of berries (in cold water) on stove and cook slowly until all pop open. Put through a sieve, then add one quart of sugar and cook until like jelly. Mold and when cold turn out. Can be sprinkled with cocoanut.

**Second Prize.**

- Mrs. H. E. D., Traverse City, Mich.
- Oyster Soup
- Crisp Crackers
- Celery
- Roast Stuffed Turkey, Cranberry Jelly
- Mashed Potatoes
- Giblet Gravy
- Onions in Cream
- Baked Squash
- Clover Leaf Rolls, Butter
- Pickled Peaches
- Mince, Apple or Pumpkin Pie
- Cheese
- Salted Wafers
- Fruit Nuts and Raisins
- Bonbons
- Coffee

**Clover Leaf Rolls.**

Two cups scalded milk  
Three tablespoons butter  
Two tablespoons sugar  
Two teaspoons salt  
One yeast cake dissolved in quarter-cup luke-warm water  
Flour.

Add butter, sugar and salt to milk, when lukewarm add dissolved yeast cake and three cups of flour.

Beat thoroughly and let rise until light, cut down and add enough flour to knead, and let rise until light. Turn on a floured board and cut in pieces the size of a walnut. Shape in little balls and place three of them in each compartment of gem tin, previously buttered. Brush rolls with melted butter and let rise until light. Bake for twenty minutes in moderate oven.

**Third Prize.**

- Mrs. E. D., Ceresco, Michigan.
- Bouillon (beef)
- Roast Turkey with Dressing
- Cranberry Sauce
- Mashed Potatoes with Brown Gravy
- Pumpkin Pie, New York Cheese
- Stuffed Olives or Celery
- Fruit Salad or Plum Pudding
- Coffee with Whipped Cream
- Raisin Bread
- Assorted Nuts

**Recipes for Twelve.**

**Plum Pudding.**

One and one-half pints of bread crumbs, one pint chopped suet, one box of raisins, one box of currants, one cup sugar, half teaspoon of salt, half teaspoon nutmeg, two teaspoons flour, mix with sweet milk, five eggs, half cup of molasses.

For sauce, one-half pound butter, half-pound sugar, one egg.

**Raisin Bread.**

At noon scald together two tablespoons flour, two tablespoons sugar, two tablespoons salt, add three mashed potatoes, three pints potato water. When cool stir in dissolved yeast cake, as many raisins as desired, and flour enough for a stiff batter. At night mix in a hard loaf. In the morning shape into loaves.

**Fourth Prize.**

- Mrs. E. S. Lansing, Michigan.
- Pineapple Salad
- Roast Duck with Giblet Dressing
- Celery Buns
- Cranberries
- Mashed Potatoes
- Sweet Corn
- Pickled Peaches
- Carrot Pudding, Lemon Sauce
- Pumpkin Pie
- Coffee

**Carrot Pudding.**

Grate one cupful of raw carrot, one cup of bread crumbs, one cup of flour, one good tablespoon of lard, rub good together. Add to raw carrot one tablespoon of sugar, one teaspoon of salt, one teaspoon of cinnamon, half teaspoon of ginger. Now add one cup of seeded raisins cut in small pieces and rubbed in flour, and mix everything together thoroughly and add enough water to make the mixture adhere well, but rather stiff. Put into a greased pan and steam for three hours, and serve with lemon sauce.

**Lemon Sauce.**

Three-fourths cup of sugar, quarter cup of water, two teaspoons of butter, one tablespoon of lemon juice. Make a syrup by boiling sugar and water for

*Christmas Suggestions*

THE Christmas season is now drawing nigh and in the distance we can hear a faint tinkle of Santa's sleigh bells.

Some already have preparations for their Christmas gifts well under way, but others are still racking their brain with "What shall I make for Christmas?"

For the best letter containing a careful description and a picture, if possible, of a Christmas gift for anyone, to be made at home, for one dollar or less, we will give a three-piece kitchen set. The next two will each receive a pair of fancy six-inch scissors, and the following two will each receive a needle case. Send all letters to the Household Editor, Michigan Farmer, Detroit, Michigan, before December 1.

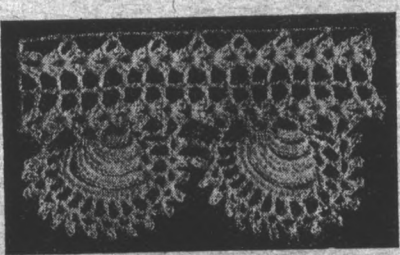
eight minutes, remove from fire, add butter and lemon juice.

**Fifth Prize.**

- Mrs. E. B., Central Lake, Michigan.
- Little Pig, Roasted
- Brown Gravy
- Mashed Potatoes
- Mashed Rutabagas
- White Bread and Butter
- Cranberry Jelly
- Sliced Cucumber Pickles
- Pumpkin Pie
- Coffee
- Roast Pig

Select a small pig weighing about fifteen pounds, dress and place in roaster, stuff with dressing made of stale bread soaked in milk or water, and seasoned with pepper, salt and sage or onions. A few oysters chopped fine and added to the dressing greatly improves it. Press the sides of the pig together and fasten with a string, which should be removed before serving. Place in a hot oven and sear, then lower the temperature of the oven and cook slowly until tender. Baste often unless using a self-basting roaster. Use the drippings for gravy, by adding a little water and thickening.

*Handsome Savoy Lace*



This design was taken from our Needlecraft Book No. 23, which contains many other pretty designs, and can be had by sending fifteen cents to The Michigan Farmer, Detroit, Mich. We suggest that you will also find very helpful our Needlecraft Book No. 10, which contains full directions, plainly illustrated, for making all the crochet stitches; it costs fifteen cents.

Old garments were remodeled by farm women last year, as a result of demonstrations by county extension agents, into 55,600 up-to-date articles of apparel, according to reports to the United States Department of Agriculture. Under similar instruction 105,000 new garments were made.



## My Canning Inventory

(Continued from last week.)

**Fourth Prize—Mrs. S. W. S., Ypsilanti, Michigan.**

There are four of us in our family. My fourteen-year-old daughter and myself do the canning together; or, in fact, she does the canning and I am her assistant since she learned to can by the cold-pack method. She is a member of a girls' canning club, of which I was local leader two years ago, when she won the state championship.

For the past season's work we started in during the holiday vacation last winter to can meats. We used a steam cooker, a tin can sealer and the sanitary enameled tin cans which I find easier to pack than glass jars. During the winter we canned fifty quarts of meat.

In March we canned thirty gallons of maple syrup which was made on the farm. This, of course, was heated and put up in gallon, two-quart, one-quart and pint jars. During the summer season, we canned twenty-eight pints of asparagus; eight quarts of strawberries; twenty quarts of cherries; forty-three quarts of raspberries; fifteen quarts of huckleberries; fifteen quarts of string beans; forty quarts of tomatoes; six quarts of elderberries; six quarts of pears; eight pints of plum conserve; twenty quarts of peaches; twenty quarts of pickles; twenty-eight pints of corn; ten quarts of catsup; ten cups of grape jelly, and sixteen cups of peach jelly.

In August we purchased a seven-teen-quart capacity pressure cooker,

which we find a great improvement over the old steam cooker, as it saves so much time and fuel, not only for canning but for cooking.

This canning, or long distance cooking, goes a long way toward preparing a meal, especially when guests arrive unexpectedly.

**Fifth Prize—Mrs. B. H. T., Holland, Michigan.**

As my garden supplied me with an abundance of fruits and vegetables, I have sometimes been at a loss to know how to save as much as I could. I canned 427 quarts of fruits and vegetables, although there are only four in my family. All was raised and taken care of by myself. For my vegetables I used the cold-pack method. My peaches, pears, grapes, cherries and blackcaps I used the open-kettle method. Then there came a shortage of jars, so I did not get discouraged, but dried my corn, apples, pears, etc. The latter is a very good idea, although many housewives neglect to do so. I dry all my pumpkins I want for pies.

I am inclosing one of my most favored recipes: One peck of pears (peeled and cut up); twelve nice tart apples; a few sticks of cinnamon; sugar to sweeten to suit the taste. Boil all until well done and then mash. I use my potato masher as it is less work than to rub through a colander. Boil slowly for about an hour, then put into jars. By adding the apples, it has a nice flavor and gives it a color that is much desired.

# STRIKES!



The recent railroad and miners' strike is estimated to have cost the farmers in California, alone, \$25,000,000.

How much has it cost you? Will yet cost you?

No matter who wins in a capital and labor fight, the farmer has to pay—and pay big.

How can these conflicts be stopped? How can the farmer be protected from having to foot the bill every time?

Governor Allen, of Kansas, has developed a remedy. A number of other prominent men have been studying all phases of the way this industrial situation is grinding down the farmer.

What they think they tell you in vigorous fashion in *the next thirteen issues of THE COUNTRY GENTLEMAN.*

Every strike you can help prevent puts money in your pocket. Get behind this movement to abolish strikes.

## Why Can't You Make More Money, Too?

Harry R. O'Brien traveled 3200 miles, asking "dirt" farmers what makes them the most money.

What crop is most profitable in your locality? What enterprise? Are your methods right?

Is it good business to take on an additional enterprise?

O'Brien knows what will coin the

most money. He got his information from successful farmers who have dug through these problems and whose proof is their bank balance.

Read what he says—in *the next 13 issues of THE COUNTRY GENTLEMAN.*

One item, one bit of fact, may mean the difference next year between an ordinary profit and a big profit for you.

## How Much Do You Pay for Liquor?

Whether or not you buy any, you're paying for it. Investigation shows that 90 per cent of the farmers are dry.

The farmers voted for Prohibition because rum interferes with the successful operation of their farms.

The present slipshod handling of the rum question is costing the farmer money.

How can rum-running and bootlegging be stopped, once and for all?

THE COUNTRY GENTLEMEN is publishing a remarkable series of articles showing what is happening and what can be done. Included is a stirring article by JAMES R. HOWARD, President of the American Farm Federation, on the farmers' attitude toward Prohibition.

These articles in *the next 13 issues* furnish the best answer to the fake "straw votes" with which we are being flooded.

## 13 Issues for Only 25 Cents

We will send you the next 13 issues of THE COUNTRY GENTLEMAN, containing these and many other important features, for only 25 cents.

THE COUNTRY GENTLEMAN is a practical "dirt" farmer's magazine.

It emphasizes the *business* end of farming, shows you constantly in hundreds of different ways how you can make more money out of farming in your

section of the country. 40 pages, each week, packed with meaty, sound *help*. Mail this coupon with 25 cents—coin, check, money order or stamps—we take the risk.

Your first issue, mailed promptly, will be worth to you more than the whole amount.

*Only 25 cents.* Mail the coupon now while you are thinking about it.



### GRANULATED LIDS.

I FIND a tendency to think of granulated lids (trachoma) as a disease of no great importance, something after the same order as "pink-eye." I want to set you right about this, for granulated lids is so serious a disease that it is considered one of the great causes of blindness. It is so serious that it is one of the diseases for which the examining doctors always make special search among the immigrants who come to this country, and a fine of \$100 is assessed against the steamship company that brings an immigrant so afflicted to our shores.

Granulated lids is a contagious disease transmitted by a virus that spreads very rapidly. So when there is one case in a neighborhood very special care must be taken to see that it does not spread. The chief method of transmission is by the use of the same wash-cloths, towels and linen. The old-fashioned roller towel in a school-room has been responsible for the flareup of many an epidemic of granulated lids. In some states the use of the roller towel in any public building is illegal. Parents should see to it that a clean towel is placed in the lunch basket of their children or otherwise provided.

The disease develops very insidiously and is not easy to diagnose in its early stages, though it can be detected by anyone after it has gone far enough to form granulations. A mass of sago-like granulations fill in the fold of the eyelid. This limits the motion of the lid and after a time the lid does not respond and gives the appearance at all times of a half-closed condition.

The disease is hard to cure and demands the very best of attention. It is no good trying home remedies. The granulations must be removed in very

vigorous fashion. It is work for an expert, but unless a case is very sadly neglected indeed, it can be cured by a doctor experienced in the work.

### HEART LESION.

Does a heart lesion ever get well of itself so that the patient is just as well as ever?—K. L.

Depends upon what kind of a lesion it is. Many patients who have a serious heart trouble learn how to live properly and thus make the heart give efficient service over a long stretch of life.

### KIDNEY DISEASE.

What about kidney disease in a young child? Is it always sure to run into Bright's disease?—S. L. P.

By no means. Children may have acute kidney inflammation from many different causes and if the child is kept in bed on a light diet she should make a complete recovery. Especial care is needed to guard against chronic disease of the kidneys when it develops in the course of an attack of diphtheria or scarlet fever.

### PLEURISY.

I would like to know how to get rid of pleurisy. I had a bad spell last February and it keeps coming back. I have a soreness across the lower part of my chest. When it is bad I spit up some brickdust-colored sputum.—E. S.

Chronic pleurisy always suggests the possibility of tuberculosis and is cured by the same treatment. This means complete rest in bed in the open air, for a prolonged period, freedom from all work and worry, and plenty of easily digested nourishment. My advice is that you take this line of treatment, no matter what the diagnosis.

THE COUNTRY GENTLEMAN  
3322 Independence Square, Philadelphia, Pa.  
Here's my 25 cents. Send me THE COUNTRY GENTLEMAN for thirteen issues beginning at once.

25¢

Name \_\_\_\_\_  
R. F. D. \_\_\_\_\_  
Town \_\_\_\_\_  
State \_\_\_\_\_

# The COUNTRY GENTLEMAN

3322 Independence Square, Philadelphia, Pennsylvania



# WRITE Percey's FOR PRICE LIST

## TRAPPERS!

Exactly fifty years ago Percey's Fur House was established at Oshkosh to barter with the Indians and other trappers. Percey's fair treatment and square deal policy built such a reputation that trappers went out of their way to secure Percey's prices. A man's word was as good as his bond in those days, and through the northwest Percey's word was "as good as gold." It still is.

Make sure your name is on our list. We will advise you of every change in market prices and conditions. Send us a postal Today Sure.

# The Largest Fur House In the Northwest Percey's

## 50 YEARS IN OSHKOSH FUR SHIPPERS!

For fifty years Percey's Price List has been the standard of the northwest. These prices are bonafide, based on standard grading that insures you biggest returns—the most money for your season's work. Honest grading, highest market prices and a square deal to all Fur Shippers for 50 years has made Percey's the Leading Fur House of the northwest.

We Cater to Dealers' Lots and Will Send a Representative on Request.

Write us today sure for Price List and Shipping Tags.

Percey's Fur House  
259 Main St. Oshkosh, Wisc.

# 50TH ANNIVERSARY Percey's

50 YEARS IN OSHKOSH

## You Can Make Money Milling Flour

One of the best paying and most dignified businesses you can get in, or put your boy in nowadays, is flour milling. On a comparatively small investment, and without any previous milling experience you can own and run the wonderful "Midget" Marvel Mill and make good money from the start.

**GET BEHIND A  
"Midget" Marvel  
One Man  
Self-Contained Roller Flour Mill**

Only a small house and small power necessary. There's more profit in this high class business than anything you can get into on the same capital, because "It makes a Better Barrel of Flour Cheaper."

Saves the high freights on wheat out and flour and feed in. "The first eight months I made a net profit of over \$8000," says A. H. Ling, Jetmore, Kan. "My profits, from the 'Midget' Marvel average right around \$40 per day," Chas. M. McKinney, Cooper, Tex. "Was \$6000 in debt when I bought my 25 barrel 'Midget' and the little mill pulled me clean out of the hole long before I bought my 40 barrel mill from you," says M. A. Kamm, Oxford, Mich.

Capacities: 15, 25, 50 and 100 barrels of fine roller patent flour a day as any mill can make.

Your community wants one of these mills. Start one before someone else gets in. It's a lifetime paying business. Write today for free booklet, "The Story of a Wonderful Flour Mill," 30 days free trial.

Anglo-American Mill Company, Inc.  
2286-2272 Trust Building, Owensboro, Ky.

## FURS WANTED

Write for prices and market conditions.  
**Vreeland Fur Company**  
445 Jefferson Ave., W.,  
DETROIT, MICHIGAN

## FURS FURS FURS

Skunk, Mink, Muskrats, Etc. Highest price. Correct assortment. Prompt returns. Buyers wanted. Write  
**G. A. BERGMAN**  
Box 446, Marquette, Mich.

## PATENTS

Write today for free instruction book and "Evidence of Conception" blank. Send sketch or model for personal opinion.  
**CLARENCE O'BRIEN, REGISTERED PATENT LAWYER, 952 Southern Bldg., Washington, D. C.**

# Our Boys' and Girls' Page

## Found In the Letter Box

A Few of the Letters Pals Have Sent to Correspondence Corner

Dear Uncle Frank:  
You have heard from me before during the snapshot contest. I received the check you sent me and thank you for it.

I wrote you that I wanted someone to write to, and I got six letters, all girls. I don't see what ails the boys; maybe they prefer girls. Maybe I do myself.

We have been taking the Michigan Farmer for quite awhile and I read some of the articles, always the story, and usually the Boys' and Girls' Department.

Well, as my letter is getting long I will close. Your nephew, Howard Sherman, Edwardsburg, Mich.

I, too, would like to know what is the matter with the boys. Perhaps



Lois Duncan, 12 Years, Wins Over 100 Boys in Southern Hog Contest.

they like the girls so well they haven't time to write. Well, I don't blame them, but I think the boys ought to write just the same.

Dear Uncle Frank:  
I wrote you three times before but did not see either of them in print, so will try again. "If at first you don't succeed, try, try and try again." That's me—sometimes.

I am fourteen years old and a sophomore in high school.

I like to ride horseback better than anything else. I have a small horse and saddle. My horse's name is Athelstone—some name, isn't it. Most all the girls round here ride, and nearly every afternoon during the summer vacation we go riding. We like to ride through thick woods and play we are western girls. This summer we went to several different lakes and took our lunch.

I have sixteen big white ducks which I am going to sell this fall, and maybe get a typewriter. I take typewriting in school and like it the most of anything else. The only part I dislike to do is selling my ducks, which are about the best pets I ever had.

I am afraid this letter will also find the waste basket if I don't say so-long. Florence Fruin, Bellevue, Mich., R. 3.

You see, persistency has won this time. I hope your horse is not as hard to ride as its name is to pronounce.

Dear Uncle Frank:  
May I join the corner now? My home has always been in Detroit until a year ago. Then we moved six miles from Lansing on an eighty-acre farm.

We have a beautiful lawn with twenty-six maple trees in the front yard. We have two horses, six cows, seven head of young cattle, eight pigs, 200 chickens, and we have set out all kinds of berries.

I am thirteen years old and I am in the eighth grade. I can play the piano and I like to ice skate and swim. Oh! is it not great fun to get ducked in the water.

I have two older sisters. One is a senior at M. A. C. The other is a stenographer at Lansing. I have a brother five years old, he really enjoys the farm. He has a pet rabbit. Your

niece, Beth Keller, Lansing, Mich., RR. 4.

I bet you like your nice home much better than Detroit. I envy you those twenty-six maple trees.

Dear Uncle Frank:

Well, here I am again. I didn't succeed last time so will try again.

I have two miles to go to school. I take milk with me every day because I want to get fat. Please don't call me a milk baby because I take milk to school.

I am twelve years old and in the eighth grade. I would like someone to write to me. Evelyn Smith, Holton Road, Muskegon, Mich., R. 2.

I think you are very sensible to take milk to school. It's lots better than coffee. Anyhow, your old Unk doesn't like coffee but he is strong for milk. So, you see, I am a sort of milk baby myself.

Dear Uncle Frank:

I am fourteen years old and am in the seventh grade. I live on a farm of 103 acres. It is quite hilly. We will have some fun sliding down hill this winter. We play wild west on the hill, that is called Punuckles-nob.

Grand River runs back of our farm about half a mile. We go fishing in the summer time. There are many beechnut trees along the river. We went after some today but the squirrels have taken them all.

We have fourteen cows, two heifers, two horses and one pet pig. He follows us all over the farm. He will lie down at our feet so we will scratch his back.

I helped draw corn today. So you will see I am getting sleepy. Well, I must close for now. Hope you will enjoy reading my letter. Will call another time. Yours truly, Lloyd Cooley, Lansing, Mich., R. 1, Box 110.

Hills make nice scenery and lots of fun for young folks, but sometimes they make harder farming for the grown folks. Keep on with that pig's education.

Dear Uncle Frank:

Well, at last I have started this letter. It seems that I never could get started. I'll tell you the reason why: I always thought other boys' and girls' letters were very good and that I could never write as good as they can.

I am very proud of the Michigan Farmer, and especially of the Boys' and Girls' Department. Every time when I go for the mail and get the Michigan Farmer I always read the Boys' and Girls' page by the time I get home, and I always look for the contest for the coming week. I never answered any. I always got them ready and I was afraid to send them



Ethel Fay Sharp, of Akron, and "Piggie" Taking a Snooze.

because I thought I would never get anything.

Now, I am doing my best to have everything just right, (O. K.), whether I win or lose.

As this is my first letter I guess I won't make it very long.

Hope I may be your pal, Theresa Sara, Nadeau, Mich.

You have the right idea about having things O. K. whether you win or lose, but you should not have been so backward about coming forward.

# FREE to trappers

HERE'S something for YOU Mr. Trapper and Fur Shipper—something very important to YOU. Raw fur prices are high this season, so get all the furs you can, BUT to get the most money for your furs, you must be accurately posted on market conditions and market prices. Make this your biggest season by reading "The Shubert Shipper" regularly. It costs you nothing—it's FREE—and it will make money for you. It's the greatest publication of its kind in the world. It quotes highest authentic market prices and contains market information that you cannot afford to be without.

## Write SHUBERT Today

"The Shubert Shipper" will put you in position to sell your furs at the highest prices at all times—you will always know just what prices your furs should command. Isn't such information worth money to you? The market reports published in "The Shubert Shipper" are always based on true facts concerning conditions existing in all the fur markets of the world. It also contains pictures of fur-bearing animals in beautiful colors. Just sign and mail the coupon below and a copy will come to you by next mail. You need it. Don't be without it.

Write for your copy at once.  
**A. B. SHUBERT, INC.**  
THE LARGEST HOUSE IN THE WORLD DEALING EXCLUSIVELY IN  
**AMERICAN RAW FURS**  
25-27 W. AUSTIN AVE. - CHICAGO, U.S.A.

### MAIL COUPON TODAY

A. B. SHUBERT, Inc., 25-27 W. Austin Ave., Chicago, U. S. A.—Without obligation send me "The Shubert Shipper" and keep me posted on Raw Fur Market conditions during the Fur Season of 1922-23.

Name \_\_\_\_\_  
(PLEASE PRINT NAME)  
Post Office \_\_\_\_\_  
State \_\_\_\_\_  R. F. D. \_\_\_\_\_  
Copyright 1922, A. B. S., Inc. (107)

# Ship Furs

Split your next shipment skin for skin grade for grade. Send one half to the house you've been shipping to and the other half to Fouke at once. See how much more you get from Fouke. Let the checks tell the story. You will get a whole lot more for the furs you ship to Fouke, you can bet your bottom dollar on that. "Prices don't mean nuthin'"—it's the grading that counts and Fouke grading always makes your fur checks bigger.

SHIP NOW! Order traps and baits now. Send coupon below at once, for lowest prices on trappers supplies, get free samples NOXENT (kills human scent) and REMOV-A-SMEL (destroys skunk smells instantly). Get free Trapper's Partner showing all kinds of traps and new paste baits, game laws, how to trap and grade furs. We keep you posted on fur market all season. ALL FREE! Send name and address on coupon today to

# FOUKE FUR Co. BUILDING ST. LOUIS, MO.

FOUKE FUR COMPANY  
599 Fouke Building, St. Louis, Mo.  
Send me samples of NOXENT and REMOV-A-SMEL, "Trapper's Partner" and tags. Keep me posted on the fur market all season. ALL FREE.  
Name \_\_\_\_\_  
Town \_\_\_\_\_  
State \_\_\_\_\_ R. F. D. \_\_\_\_\_ Box \_\_\_\_\_

## TANNERS

of CATTLE, HORSE, CALF, COON, FOX, SKUNK, MINK, MUSKRAT, WOODCHUCK, DOG, CAT and RABBIT SKINS.

What kind of skins have you? We make up and line Men's & Ladies' Fur Coats, Scarfs, Muffs, Capes, Collars, Robes and Mittens from raw skins. Circulars Free. Use plenty of salt on green hides.  
**W. W. Weaver, Reading, Mich.**  
Custom Tanner, 30 yrs. Experience.

## FERRETS FOR SALE

N. A. KNAPP & SON, R. 2, New London, O.



**READ-AND-WIN RESULTS.**  
BY UNCLE FRANK.

AS usual the old reliable Read-and-Win Contest brought a nice lot of replies, a fair share of which were correct, but many failed in conciseness, or neatness of arrangement or writing.

Perhaps a few suggestions regarding how I get up these Read-and-Win Contests will be interesting:

As the paper is being made up I take the original page proofs and from them pick the suggestions from which I make the questions. Then I write out the questions to make them as clear as possible, the answers to the questions and the pages from which I took the material. The sheet on which I write this material is taken out to the linotype man to have the questions set up in type. The sheet is brought back to me and I keep it in the desk for about ten days, when the replies begin to come in. Then I compare the replies with my answers and those who have theirs nearest like mine and have them neatly arranged and written, are picked for the winners. With reference to neatness, I know it is much easier for some to write neatly than others, so I consider the effort to write neatly, as well as neatness itself. I do not want anyone to think that he is barred from winning because he can not write a good hand.

It seems as if some do not understand the meaning of the word concise. It means briefness or expressing much in few words. In answering these questions, it is not necessary to make full sentences or to repeat the questions. Also, please write your name on your contest sheet. If you write a letter put it on a separate sheet and please put your name on that, too.

These suggestions are given for those who have tried the contests and have not been successful so far.

**THE LUCKY TEN.**

HERE are the winners of the Read-and-Win Contest of November 11, and the prizes they won:

- Pencil Box.**  
Anna E. Haystead, Britton, Mich.  
Merle Brunt, Samaria, Mich.  
**Nickled Pocket Pencil.**  
Gerald Wright, Cassopolis, Mich., RR. 4.  
May DeLand, Temperance, Mich.  
Helen Jones, Henderson, Mich.  
**Maps.**  
Lois Amos, Owosso, Mich., RR. 8.  
Frances Ebeling, Romeo, Mich.  
Thelma Sullivan, Alanson, Mich., Box 186.  
Willard Merce, Ida, Mich.  
Maxine Hover, Akron, Mich.

**CORRECT ANSWERS.**

BELOW you will find the ten correct answers to the Read-and-Win Contest of November 11, and the pages on which they were found:

1. By spreading a thin coat of straw over the seeded crop—Page 499.
2. The fox—Page 514.
3. 341,000—Page 518.
4. In their jackets—Page 512.
5. Soviet, Russia—Page 507.
6. Greening—Page 505.
7. Dan Higbee—Page 503.
8. A full cord of well-seasoned wood—Page 516.
9. \$8,000,000—Page 504.
10. Because they loosen the frame and shorten its days—Page 518.

**A HALLOWE'EN STORY.**

ON Hallowe'en I had a very good time. We went to a social that night and had a good time, but when we got home we found the door open and the chairs all upside down.

We straightened up the chairs and then went to bed. We hadn't been there long when we heard something on the window. Papa got up and there stood someone dressed like a ghost and holding a large black cat. Papa called and you had ought to have seen the ghost run.

The ghost didn't come back again, but while we were asleep, some one came and made all kinds of pictures of ghosts and cats on our window with soap. We sure had an awful time to get the soap off the windows the next morning.

When we went to school there were all kinds of tools piled around the school-house. The teacher made the boys take the tools back, but when the teacher went to ring the bell she found it tied fast and could not ring it. —MELVA CORBIN, Eaton Rapids, Mich., RR. 1.

**THE MUCH SHUNNED SKUNK.**

BY JOHN O. ROBERTS.

SKUNK fur is always in good demand and commands high prices. Therefore, being prolific and (as a

**Thanksgiving Contest**

THIS being the Thanksgiving season, I think it well for all of us to think over the things we should be thankful for. I presume all of us have a lot of things we are not thankful for, and it is a common habit to think of them more than the good things we have. To practice thinking of these big things which have been helpful to us, makes us look on the bright side of life, and to do that helps a lot in making a success of it. So, to encourage this practice I ask you this time to write on "The Five Things I am Thankful For." To the ten best papers, most neatly written, we give the usual prizes; the first two, Michigan Farmer pencil boxes; the next three, nickled pocket pencils; and the next five, Michigan Farmer maps of the world and New Europe. Send your papers to Uncle Frank, Michigan Farmer, Detroit, Mich., so that they get here on or before December first.

rule) easier trapped than other furbearers with a little protection supply a constant income.

Old hollow logs, outbuildings and cross fence hedges are favorite places for dens. They are often found in old sand pits, rocky bluffs, along the high sandy banks of small streams.

Bad meat makes a good natural bait. Set your traps in the narrow runs it frequents, and cover lightly with chaff or dust. Bait with stale meat. As skunks den up in very cold weather, a smoker will aid greatly, as you may then select only males and heaviest furred fellows and not cause any suffering in the traps on a cold night.

By placing two logs parallel and covering with brush, you may entice Mr. Skunk to enter for the bait placed inside and, of course, set in the trap, one being placed at either end.

If you approach cautiously after the skunk is trapped its back can be broken, thus preventing any unpleasant consequences.

Contrary to belief, a skunk uses his scent as a last means of defense.

**WANT TO CORRESPOND.**

The following young folks would like to correspond with others interested in this department:

- Pauline Laughlin, Dansville, Mich.  
Violet M. Olin, Stanwood, Mich., R. F. D. 1.  
Alma Princing, Pinconning, Mich.  
Della Deachin, Uby, Mich.  
Irene Eisle, Fowlerville, Mich.  
Vera Norton, Jones, Mich.  
Mabel Campbell, Traverse City, Mich., R. F. D. 5.  
Melvin Springer, Anchorville, Mich., R. F. D. 1.  
Claude W. Mitchell, Decker, Mich., R. F. D. 2.



**An Open Letter from  
The Lehon Company**

Are we right or wrong? We have just had an argument with a man who says that roofing products have only one fundamental, permanent appeal, and that this appeal is price. He maintains up and down that the Company which plays up price alone is most apt to succeed.

If he is right, than we are wrong.

Why? Because we make no pretense of having the lowest prices. We make no selling appeal based upon price. We get and keep only those customers whose primary interest is quality.

Frankly, we have thought that our position was the correct one. Maybe we are so close to our business that we can't see straight.

What do you think? Are we right or are we wrong?

Very truly,

**THE LEHON COMPANY**

44th to 45th Street on Oakley Avenue

CHICAGO, ILL.

Manufacturers of Mule-Hide Roofing and Shingles

**"NOT A KICK IN A MILLION FEET"**

**The Real Estate  
Market Place**

Special discount given when used in combination with 7 other Capper Publications. Write for special real estate advertising rates on these papers which reach over a million and a half families

**RATES**

For Real Estate Advertising  
On This Page

35c a line per issue on 4 time orders

40c a line per issue on 1 time orders

**\$600 Secures Dandy 40 Acre  
Farm Home, Team, Cow, Etc.  
Radio Outfit**

Splendid location on improved main traveled road between three cities, lovely drive along river view scenery to lake port city and famous summer resort. Handy to school, stores, churches; 35 acres nearly level loamy tillage market right at door for eggs, cream, milk, canning factory products, etc.; apple orchard, 7 room house, good cellar, 2 porches, excellent water at door, beautiful maple shade, barn 40 x 45 with granary inside, poultry house; owner has large farm, decides to make sacrifice price and includes for quick sale 2 horses, cow, 15 hens, plow, drag, grain binder and other tools, corn fodder, potatoes, vegetables for winter use, radio outfit for receiving broadcasted messages. Price for all \$1900. \$600 cash down, balance \$50 yearly, interest at 6%. Shown by Milton S. Hopkins, Coopersville, Michigan, or see MICHIGAN FARM AGENCY, 628 M.F. FORD BLDG., DETROIT, MICH.

**Michigan Farm Near Town  
200 Apple Trees; 3 Cows**

Team, hogs, 60 poultry, threshing outfit, cream separator, implements, season's crops included; you would be proud to show your friends this fine farm home; 200 acres nearly half tillage, spring-watered pasture, about 1000 cords wood, 50,000 ft. timber; 200 full bearing apples; 10-room house, big barn, silo, granary. Owner unable operate, \$5500 takes all, part cash. Photo and details page 71 Illus. Catalog 1200 Selected Farms. Copy free. STROUT FARM AGENCY, 814BC, Ford Bldg., Detroit, Mich.

**State Road Farm Home  
Season's Crops, 3 Horses and**

150 poultry, cow, vehicles, tools, potatoes, tomatoes, cabbage, beans, oats, hay, garden included if taken soon; 30 acres edge village, roadside market; fishing, bathing, boating; 27 acres rich loamy tillage; creek-watered pasture; 82-tree fruit orchard; good 7-room house overlooking lake; ample barn, outbuildings. To settle affairs, \$3800 takes all, only part needed. Peter Salowitz, 721 15th St., Port Huron, Mich.

**Municipal Lands For Sale By The District.**

No agents, no commission; interested only in getting home-builders on the project. Longest growing season in the northwest. Gardens and fruits thrive; schools, highways and railroads the best. Junction Snake and Columbia rivers. Write for terms and folder. Address: Burbank Irrigation District No. 4, Burbank, Washington.

FOR SALE 80 ACRE FARM in Ingham County. Good buildings, and soil, 3 1/2 miles to R. R. town. \$2800 part down and terms on balance. Milo Whited, Stockbridge, Mich.

**For Sale** 80 acres clay loam, some fine timber, good buildings close in, \$3500 \$500 down and easy terms. 40 acres, \$200 to \$500 down, 10 acres close in, fine house, water, lights, furnace, small basement barn, \$500 down and \$100 per year. Any size farm; unimproved land at \$12 per acre, some timber land, all kinds of trades. Write, Strang Real Estate Agency, Lakeview, Mich.

**FOR SALE** 160 acres clay loam soil, \$20 per acre, all fenced, 40 acres cleared, house, barn, on 16-ft. gravel road No. M. 76. EDW. THEOBALD, Riverside Farm, Roscommon, Mich.

**Must Sell At Once** to settle an estate. Good farm, good buildings. Alfalfa and fall grains. Further particulars, write Box 443, Ithaca, Mich.

**80 ACRES** fertile soil with good buildings. Five acres timber. Two miles from town. Liberal terms. OTTO WIRTH, Ewart, Mich.

**Poor Man's Chance** \$5 down, \$5 months by buys 40 acre productive land near town. Some timber. Price \$225-Other bargains. Box 425-Z, Carthage, Mo.

**I Have Cash Buyers** for salable farms. Will deal with owners only. Give description and cash price. MORRIS M. PERKINS, Columbia, Mo.

**For Sale** or exchange for stock of merchandise 80 acre farm, also 160 A. farm, both improved. J. F. GARRISON, Davison, Mich.

**Farms Wanted** Give full description and cash price. Quick sales. Leaderbrand Sales Agency, E-40, Cimarron, Kansas

**WANTED** man with team, tools and some cows, to work 120 acres near Ionia on shares. 10 registered Holsteins go with farm. E. H. HARRISON, Springfield, Ill.

**If you want to buy,** sell or exchange property, write Jerome Probst, Ann Arbor Mich.

**We Have Cash Buyers** for farms at real bargain prices. For sale, easy terms. CENTRAL LAND BUREAU, New Franklin, Mo.

**Want to hear from party** having farm for sale. Give particulars and lowest price. JOHN J. BLACK, Capper St., Chippewa Falls, Wis.

**110 Acre Farm** in Hillsdale Co. Good buildings. For sale, easy terms. F. G. MARSH, Reading, Mich.

**Wanted** To hear from owner of land for sale O. K. HAWLEY, Baldwin, Wisconsin



# Rats are on the job 365 days a year!!

Now is the time these destructive rodents seek shelter and food supply for the winter.

Annually, in the United States, they destroy foodstuffs valued at \$200,000,000.

## Don't Let Them In!

That's the most important step in exterminating them.

Protect your granary, corn crib, poultry house, etc. by covering walls and every possible entrance with **YOUNGSTOWN EXPANDED METAL**.

The fine mesh will keep out the smallest mouse as well as the biggest rat. Also skunks and weasels.

As a special inducement to get you to try Youngstown Expanded Metal for rat-proofing, we have a limited quantity of this material in narrow widths and varying lengths to be sold at 3c per square foot, freight paid to your depot.

Figure up the quantity you can use—a few dollars invested now will more than pay the slight expense of rat-proofing your buildings. Don't board rats at \$7.00 or more a year each!

The **Youngstown Pressed Steel Company**  
WARREN, OHIO



**Make More Money**

With a draft-free, warm, dry, easily cleaned, vermin-proof poultry house of Natco Glazed Hollow Tile, you increase your egg yield and have healthier chickens. Easily erected at reasonable first cost with no upkeep expense afterwards.

Write for the new Natco on the Farm Book.

**NATCO DOUBLE SHELL TILE**

NATIONAL FIRE-PROOFING COMPANY  
1295 FULTON BUILDING :: PITTSBURGH, PA.



**Why Not PUT THIS NEW MILL ON YOUR OLD TOWER**

**ALBION**

Albion steel and wood mills are quiet and powerful. One-third the working parts of any other mill. Only main Pitman bearing subject to wear. This is oilless, and easily replaceable. Covers by dependable weight without springs. Fits any 4-post steel tower. Why not shorten your chime hours now with a good wheelbarrow? This is your chance—F. O. B. Albion. Erect it yourself. Ask your dealer, or write direct to

Union Steel Products Co. Ltd.  
No. 528 N. Berrien Street,  
ALBION, MICHIGAN, U. S. A.

**WITTE \$75.00**

**Buzz Saw**

ZIP—Cuts Quick. Needed on Every Farm. Built in Sizes, complete with engine, saw, frame, mandrel, pulley and belt, ready to mount on wagon, sled or long slide. Particulars free.

**WITTE ENGINE WORKS**  
2194 Oakland Ave., Kansas City, Mo.  
2194 Empire Bldg., Pittsburgh, Pa.

**POULTRY**

**JUST-RITE LOOK!**

**Baby Chicks**

A Hatch Every Week All Year

POSTAGE PAID, 95¢ live arrival guaranteed. MONTH'S FEED FREE with each order 40 Breeds chicks, 4 breeds ducklings, select and exhibition grades. Catalog free, stamps appreciated.

NABOB HATCHERY, Dept. 15, Gambier, O.

**PULLETS**

We yet have a few hundred Pullets in Leghorns, Barred Rocks, White Wyandottes and Orpingtons. The most of these Pullets are now near laying age and should be put into winter laying quarters soon. If you want a flock of winter layers, write to us now. Also Cockerels, Bronze Turkeys, Toulouse Geese and Pekin Ducks.

STATE FARMS ASSOCIATION  
Kalamazoo, Michigan

# Poultry

## CANADA MAY STANDARDIZE EGGS.

THE Canadian government has decided that there is class distinction between eggs as well as folks. It is, therefore, through the live stock branch of its department of agriculture devising a system of grading and marketing whereby the purchaser may know the character of the product he is buying before the price is paid and the shell broken.

The public will be told all about this system by means of an advertising campaign which is to increase the consumption of eggs and to popularize the



Ashley Phelps and His Japanese Silkie Bantams.

national grades. It is also to serve as a means of doing away with the old system of exchanging eggs for goods at country stores at stated rates of exchange regardless of the condition of the eggs.

Some years ago the idea of national standards of eggs was started. The Canadian Produce Association's convention in 1915 drew up the first standards for egg rating. After two years' trial these regulations were made legal standards for export and inter-provincial trading.

Propaganda was undertaken to introduce this graded product among the importers of Great Britain, with the result that Canadian eggs are in great demand on the British market.

The present campaign is based on the theory that if the practice of grading for export has proven so good in export business, it ought to prove useful in the development of a larger home market.

The standards provide for two main classes of eggs, fresh and storage, with four grades in the fresh class, which are specials, extras, first and seconds. In the storage class there are three grades, extras, firsts and seconds.

The specials in the fresh class are eggs attractive in appearance when cooked alone or in combination with other foods, and give a delicious flavor to the prepared dish. These eggs are not found on the market at all seasons. The extras are very satisfactory eggs when cooked alone or in combination with other foods and can always be obtained. They should prove very popular as the housewife can be

sure of getting good results from these eggs.

The firsts are good eggs which may be scrambled, fried or used for other cooking purposes, but are not of the uniform quality of the specials and extras. The seconds are eggs which may be used in baking and where eggs are used in combination dishes. This grade includes stale eggs and those with watery whites and heavy yolks.

## TURKEY PRODUCTION DECLINING.

ACCORDING to the United States Department of Agriculture, the production of turkeys has decreased about fifty per cent in the last twenty years, although since 1915 the prices for turkeys have rapidly increased. At that time the average cost per pound was fifteen cents, while in 1920 and 1921 it was thirty-two cents.

The decrease in turkey production is not due to price, profits or disease. But undoubtedly more due to the fact that our agricultural land is being divided in smaller units which makes it unhandy to give turkeys the range they need.

## CARE OF DROPPINGS BOARDS.

THE use of droppings boards beneath the poultry house roosts helps to keep the litter clean over the entire floor area of the house and concentrates a large part of the manure where it can be quickly removed from the house. I have found that it pays to clean the droppings boards every day. Then the manure is scraped together when it is moist and before it is scratched off the boards into the litter.

When the manure is left on the boards a week or more it becomes very dry. This means a lot of hard scraping to make the boards clean. Considerable fine dust is stirred into the air and this must be avoided in the winter when the house is full of birds.

A wide metal scraper saves time in cleaning the droppings boards. Keep it hanging inside the poultry house door beside a bushel basket. It is also handy to keep a wheelbarrow standing outside the door. Then the droppings can be carried out in the basket, dumped in the wheelbarrow and thrown on the garden or in a manure pit where they are later removed to the fields. Do not dump poultry manure close to the houses where the birds will scratch in it. This only increases the chances of disease spreading.

A stiff barn brush is a handy part of the poultry house equipment. Sometimes the droppings boards will not be free from dust and particles of dirt after a thorough scraping. Then a brush is useful in completing the work. The stiff long-handled brush is also useful in cleaning up the poultry house floor after the straw litter is pitched out.—Kirby.



One of the Longest Poultry Houses in the World, on the Kellogg Farm, Battle Creek; 480 Feet Long, with Capacity for 2,500 Chickens.

# 36 Hens Lay 34 Eggs a Day

Zero Weather, Too. Here's How It Is Done. Try It On Your Flock.

"Early in November, I started giving Don Sung to 36 barred rocks which had been laying only 3 or 4 eggs a day. The first month showed a big gain. Yesterday, Jan. 16th, with the temperature five degrees above zero, I got 34 eggs from these same 36 hens. In the first 20 days of January, I got 596 eggs, or an average of about 30 a day. I wouldn't think of keeping chickens without Don Sung."—H. G. Casper, Orrville, Ohio.

Figure this: A \$1 package of Don Sung lasts 36 hens 40 days. Two dozen extra eggs a day, for 40 days, is 80 dozen. At winter prices, figure his profit.

There's no reason why you can't do just as well. Accept our trial offer, as Mr. Casper did. Here it is: Give Don Sung to 15 hens. Then watch results for 30 days. If it doesn't show you a big increase in eggs, if it doesn't pay for itself and pay you a good profit besides, tell us and your money will be promptly refunded.

Don Sung (Chinese for egg laying) acts directly on the egg-laying organs, and is beneficial in every way. It makes hens healthy and happy. They scratch and sing. Pullets develop earlier. The whole flock lays regularly in any season, in any weather, when eggs are scarce and high.

Can you afford to ignore the wonderful reports you are hearing from Don Sung users everywhere? Why not let us show you the same results, with your own flock? Don Sung is no trouble to use. It costs nothing to try. All we ask is a chance to prove our claims, entirely at our risk. Get Don Sung from your local dealer, or send 50 cents for package by mail prepaid (large size, \$1, holds three times as much).

Burrell-Dugger Co., 424 Columbia Bldg., Indianapolis, Ind.

**Pullets and Hens**

Barron Strain S. C. W. Leghorns and Parks strain B. Rocks. Large pullets starting to lay \$1.75 each. 12 weeks old pullets \$1.25 each, \$115 per 100. Selected S. C. W. Leghorn hens \$1.00 each, \$95 per 100. Good healthy birds no culls or weaklings.

PINE BAY POULTRY FARM, Holland, Mich.

**Baby Chicks \$12.00 per 100 and up**

Hatching eggs, \$1.50 per setting to \$16.00 per 100. We are listing 17 varieties of pure bred fowls: Chickens, Geese, Ducks & Guinea, also breeding stock. Send for prices and circular. Booking now for early delivery. CLINTON HATCHERY & POULTRY FARMS, Wilmington, Ohio.

**Barred Rocks egg contest winners**, eggs from a rain with records to 250 a year. \$2.00 per setting prepaid by P. P. Circular free.

FRED ASTLING, Constantine, Mich.

**R. C. Br. Leghorns**, Pekin Ducks, W. Chinese Geese, both mature and young birds. Mrs. Claudia Betts, Hillsdale, Mich.

**Whittaker's R. I. Reds**

200 Single Comb Red pullets at \$2.50 to \$5 each. Also Cocks and Cockerels of both combs. From stock blood tested for bacillary white diarrhoea. Write for catalog. Interlakes Farm, Box 39, Lawrence, Mich.

**WHITE LEGHORNS**

Lay 265 to 301 eggs per year. Winners at 30 shows. Chicks, eggs, pullets, hens and males shipped C. O. D. at low prices. Write today for catalog and complete information to the World's Largest Leghorn Farms.

GEO. B. FERRIS, 934 UNION, GRAND RAPIDS, MICH.

**PULLETS & COCKERELS**

Now Four Months Old

WHITE LEGHORNS AND MOTTLED ANCONAS Also Black Leghorns, Brown Leghorns, Buff Leghorns, Black Minorcas, R. O. Rhode Island Reds, Barred Plymouth Rocks, White Plymouth Rocks, Silver Wyandottes, White Wyandottes. WE HATCH eggs from Hatched flocks on free range on separate farms. Where our chicks are raised. Send for Price List.

**CRESCENT EGG COMPANY**

Allegan Michigan

**RHODE ISLAND WHITES**

win over all breeds at the egg laying contest. 30 eggs \$5; 50 \$8; 100 \$15 order from this ad. Some chicks, H. H. JUMP, R. 5, Jackson, Mich.

**S. C. White Leghorns**

Cocks and Cockerels

RALPH S. TOTTEN, Pittsford, Mich.

**Single Comb Buff Leghorn**

Early hatched okls. Willard Webster, Bath, Mich.

**WHITE WYANDOTTES**

207 egg average. Eggs all matings, \$2.00 per 15, \$10.00 per 100. Cockerels, hens and pullets \$5.00 each.

FRANK DELONG, R. 3, Three Rivers, Mich.

**Bred-To-Lay White Wyandottes**

Special sale of cockerels from 200 egg hens for \$5.00 if taken early. EVERGREEN POULTRY FARM, Blanding & Sons, Greenville, Mich.

**Michigan's Best Giant Bronze Turkeys**

Healthy range-bred birds from world's best strains. Unrelated stock furnished. N. Evalyn Ramsdell, Ionia, Mich.

**White Wyandotte Cockerels**, Finest Bred-to-lay flocks.

HOWARD GRANT, Marshall, Mich.

**Bourbon Red Turkeys** We have them. Order your Birds and Eggs now.

SMITH BROS., B. 5, Augusta, Mich.

**FULL BLOOD** White Holland Turkeys for sale, \$7 and \$9.

MRS. GUY WELCH, R. 1, Elwell, Mich.



# Getting Milk to the Babies

(Continued from page 559).

pooling plan but are working that way, says O. A. Jamison, manager of the Maryland and Virginia Milk Producers' Association. The association started with a small membership fee. Later a field man was secured and contracts circulated and signed, increasing brokerage to one-fifth of one cent per gallon on all milk. At the same time each member signed an order for their dealer to deduct their brokerage. This went well during the war, but after the armistice, the demand fell off, the dealers dropped the prices and refused to deduct brokerage, hampering the work of the association, and lowering its income because some of the members refused to pay their dues. To meet this situation, the market being flooded with a surplus of milk, in 1921 a surplus utilizing plant was started, and has been in successful operation since August 8, 1921.

Recently the members decided to adopt the pooling plan, to be put into operation when eighty-five per cent of the members were signed up. The Farm Bureau Federation is aiding the work of getting the members to sign, and there are now nearly enough signed to begin business of this plan. Mr. Jamison says that in the Washington district the biggest problem is to get the members to realize that the price of milk must be based upon the law of supply and demand.

### The Baltimore District.

In his report of the cooperative marketing situation in the Baltimore district, D. G. Harry, president of the Maryland State Dairymen's Association, said that Baltimore is a fluid market, the only milk manufactured being the surplus at certain periods of the year. There is some trouble from milk coming in from organized territory, caused by the higher price in Baltimore.

Arrangements have been made with thirty-five dealers in Baltimore to take their entire supply of milk from the association, all of them giving a bond, guaranteeing payment of the milk received. Ninety-five per cent of the shippers who sell their milk in Baltimore are members of the organization. All members receive the same price based on the butter-fat basis. The testing for butter-fat is done by a central laboratory, two tests of each shipper's milk being taken each month. The dealers pay for this test.

The central laboratory is under the supervision of a board, composed of a representative of the distributors, the University of Maryland, and the producers.

A year ago a surplus plant was erected to take care of the unplaced milk, with a capacity of 3,000 gallons a day, but so far it has not been used, the dealers paying more at country receiving plants than could have been received by running the milk through the plant.

"Each dealer is required to file with Dr. Clyde L. King, price arbitrator, a monthly statement of his sales and receipts, and if it is found that any of this unplaced milk is going in the bottle and sold as fluid milk, the dealer must at once take on additional producers as regular shippers, to offset the amount. The loss sustained by the surplus milk that is manufactured is met by a brokerage fee of four-fifths cents per gallon deducted from all the milk which is sold by the association. This has not only met the loss, but built and equipped the \$78,000 by-product plant, and created a fund of over \$70,000.

### Handling Surplus in Pittsburgh.

The Pittsburgh surplus plan was described by P. S. Brenneman, president of the Dairymen's Cooperative Sales Company. This company is incorpor-

ated, has 10,000 members, with 104 local units in Ohio, Pennsylvania and West Virginia, who elect an advisory counsellors' board of 100 members. Every three months this board meets at Youngstown, Ohio. An annual meeting is held, when five from the board of 100 are elected by "the boys back home" to manage the business the coming year.

Under the surplus pool plan, the milk is sold in three different classes: Milk at wholesale in bottles and cans; cream; butter and cheese. Each buyer signs a buyers' pool contract to give a true report of his business from month to month as to how much milk he bought in class one, two and three, and where he bought it.

The company does not operate as a general pool, but in districts separated by differentials. Producers get the average price, and buyers pay the expense.

### Cincinnati Dairymen Had Troubles.

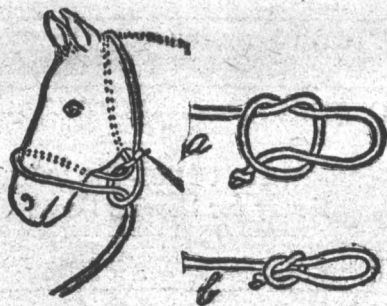
Harry Hartke, of the Tri-States Milk Producers' Association, supplying Cincinnati, said that six years ago when the association was formed dealers refused to buy, and farmers held up the supply for ten weeks. The organization now has under contemplation a plan to deliver milk direct to customers. It will undertake to operate a moderate sized plant. To erect this plant the members have signed thirty-day sight notes for \$20 per cow, and the banks have agreed to give face value for all notes signed. Several banks have offered liberal credit.

### A HALTER IN A JIFFY.

IT is often found necessary to make a halter in a hurry, in cases of emergency, to be used on cows, colts, etc. A piece of rope, trunk cord or strap can quickly be converted into a halter that will help out in many a pinch.

Tie a small loop on end of rope or strap—a ring will answer the same purpose as the loop. Do not make this a running noose, but tie it as shown in illustrations.

To put the halter on an animal, put end of rope with loop around animal's



neck. Now push a portion of rope through loop (or ring), then up over animal's nose. By drawing on free end of rope, the halter can now be made as tight as desired. To release halter, slacken rope enough to allow the nosepiece to drop from animal's nose, pull the lead end of rope and the halter immediately drops off.

I have used this halter hundreds of times, and would like for every farmer to know about this simple, practical idea.—V. A. Galliher.

### HERE AND THERE IN MICHIGAN.

THE dairy and alfalfa campaign meetings in Kent county are being unusually well attended.

It is reported that Monroe county produced more alfalfa seed this year than will be required by the farmers of the county for next spring's seeding.

The Hall orchards, near Belding, have shipped ten thousand barrels of apples this season.



## From GRASS to DRY FEED

Now, the pasture field and range must give way —to the stall and manger, the feed lot and self-feeder, the barnyard and fodder rack.

Include

### DR. HESS STOCK TONIC in the ration

You have often noticed stocking of the legs, roughness in the hair, highly colored urine—all on account of the change from grass to dry feed.

Not so where Dr. Hess Stock Tonic is fed. The Tonics, the Laxatives, the Diuretics, take care of all that. No worms; the Vermifuges settle them.

Then you are all set for heavy feeding, a good yield of flesh and milk throughout the winter.

Tell your dealer what stock you have. He has a package to suit. GUARANTEED.

25 lb. Pail \$2.25 100 lb. Drum \$8.00

Except in the far West, South and Canada.

Honest goods—honest price—why pay more?

DR. HESS & CLARK Ashland, O.



I spent 20 years in perfecting this Tonic. GILBERT HESS M.D., D.V.S.

## Dr. Hess Dip and Disinfectant Kills Hog Lice

## Barren Cows Can Be Made Profitable

Don't send them to the butcher. They can be made to raise calves and produce milk in paying quantity. Barrenness simply means that the cow's genital organs are too weak to function properly.

Kow-Kare, the great cow medicine, acts directly on these organs and the digestion, correcting the serious disorder. D. B. Thomas, Knightville, Utah, writes us:

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

Mrs. Harvey Ray, Homer, Ill., writes: "The registered Shorthorn cow I wrote you about last year, and which I treated for Barrenness, under your directions, dropped a fine Bull calf Jan. 2nd. Less than one can of Kow-Kare did the work."

Hundreds of others tell us every year of making valuable producers from cows that seemed hopelessly barren.

COW BOOK FREE



Kow-Kare is equally valuable in treating Abortion, Retained Afterbirth, Scouring, Bunches, Milk Fever and Lost Appetite. Thousands of dairymen use Kow-Kare one week each month to keep up the milk yield during the winter months.

Let us mail you, free, our valuable 32-page book, "The Home Cow Doctor." Kow-Kare is sold by feed dealers, general stores and druggists. We will send either the \$1.25 or 65c size prepaid if your dealer is not supplied.

DAIRY ASSOCIATION CO., INC. Lyndonville, Vt.

## COW BOY SURE HEATER for STOCK TANKS



Get a heater early. Write now for illustrated circulars and dealer's name, to

## LASTS A LIFETIME

Convert grain and hay into butter and meat and save freight charges by heating the water for your stock with cobs, wood, or coal in a

### COW BOY TANK HEATER

Quickest to heat; strongest draft; adjustable grates; ashes removed without disturbing fire; keeps fire 24 hrs. Absolutely Safe; 4 cows; Self-Sinking; can be used in Wood, Steel or Concrete Tanks of any size. Most reliable, practical, efficient. Price reduced. Quality maintained. Thousands used everywhere.

\*Purchased 3 of your Tank Heaters last Winter, worked very satisfactorily and are well worth their cost. Every stockman should use one. W. H. FEW, Prof. of Animal Husbandry, Iowa State College, Ames, Ia.

THE MUNDIE MANUFACTURING COMPANY 519 Brunner Street, Peru, Illinois

Mention The Michigan Farmer When to Writing Advertisers



**BREEDERS' DIRECTORY**

Change of Copy or Cancellations must reach us Ten Days before date of publication



Edgar of Dalmeny

George Henry

**5 Grand Champions 28 FIRSTS**

and other prizes. Such was the remarkable performance of our animals at the 1922 Michigan State Fair. What could be better proof of the unvarying quality of our animals or more representative of the ideal for which we have striven? Our success is the natural culmination of our efforts and our reward for years of careful and costly breeding. Ours is symbolic of the best. Mediocrity is not tolerated.

Our success can also be yours. Our young animals are the finest examples of breeding and will do much to improve your herd. Get the blood of the King of Sires **EDGAR OF DALMENY** into your herd and you will have individuality, distinction and quality.

The services of our Grand Champion Stallion, **GEORGE HENRY** are available.

Your correspondence and inspection are invited.

**WILDWOOD FARMS**  
ORION, MICHIGAN  
W. E. SCRIPPS, Prop. SIDNEY SMITH, Supt.

**Registered** Aberdeen-Angus cattle. Two bulls from eight to eleven months old. One a show bull, large and growthy. Priced reasonable. Inquire of F. J. WILBER, Ohio, Mich.

**FOR SALE**, Several registered Aberdeen-Angus, Angus bulls and heifers of various ages. LANG BROS., Davison, Mich.

**Registered Guernseys** Another crop of calves. Choice bull calves \$75, their breeding and records will please you. J. M. WILLIAMS, No. Adams, Mich.

**Registered** Guernsey Bull. Born Nov. 18, '21. Out of Advanced Registry Sire and Dam. An extra good individual, very reasonable price for quick sale. Herd on Federal Accredited List. No. 21701. Knapp & Woodworth, R. 2, Waterliet, Mich.

**GUERNSEYS** - REGISTERED BULL of world champions. A. R. cows. Federal inspected. HICKS' GUERNSEY FARM, Saginaw, W.S. Mich.

**Guernsey Bull** ready for light service. Bred heifer. Yearling heifer. Adv. Reg. breeding. Free from disease. G. A. Wigent, Waterliet, Mich.

**For sale** Registered Guernsey cows, May Rose Breeding also bull calves \$50 each. Registered A. R. dams. JOHN EBELS, R. 2, Holland, Mich.

**WINNWOOD HERD**

**Registered Holsteins**



Ask us about a Real Bull a Maple Crest or an Ormsby.

JOHN H. WINN, Inc., Rochester, Mich.

**The Traverse Herd**

We have what you want in **BULL CALVES**, the large, fine growthy type, guaranteed right in every way. They are from high producing A. R. O. ancestors. Dam's records up to 30 lbs. Write for pedigrees and quotations, stating about age desired.

**TRAVERSE CITY STATE HOSPITAL**  
Traverse City, Mich.

**Holstein** Friesian heifer and bull calves, purebred registered and high-grade. Price \$20 up. Splendid individuals and breeding. Write your requirements. Browncroft Farms, McGraw, N. Y.

**COLANTHA BULLS**

All ages, from high-producing dams. Also a few registered and high-grade Holstein cows at farmers' prices. Pedigrees and prices upon request. A clean herd under Federal supervision. WHITNEY FARMS, Whitney, Mich.

**A Good Note** accepted in payment of finely bred registered Holstein bull calves. Quality of the best, and at prices within reach of all. Write GEO. D. OLARKE, Vassar, Mich.

**Yearling Bull, \$100**

Pure bred, registered, federally tested. Dam a 18 lb. 3 yr. old daughter of King Segis Pontiac, 37 lbs. Good individual, mostly white. Guaranteed healthy. Priced to sell quickly. Pedigree on request. ALBERT G. WADE, White Pigeon, Michigan.

**REGISTERED HOLSTEINS**

Young Bulls that will please you in breeding, individuality and price. Some of them are very desirable for heading pure bred herds. Federally accredited, I. M. SHORMAN, Fowlerville, Mich.

**For Sale** a semi-official daughter of Maple Crest Korn, Hensveld, Federal tested, also a few granddaughters from 1 to 3 yr. old. Terms if wanted. M. L. McLaughlin, Redford, Mich.

**For Sale King Segis Breeding**

Nine months old bull, whose seven nearest dams average 27.72. This is the last of my nineteen of this age. The others are all sold.

**Grand River Stock Farms**  
Corey J. Spencer, 111 E. Main St.  
JACKSON, MICHIGAN

**FOR SALE** 16 Registered Holstein heifers \$75 to \$125. M. A. SAMS, Coleman, Mich.

**BUTTER BRED JERSEY BULLS** FOR SALE  
CRYSTAL SPRING STOCK FARM,  
Silver Creek, Allegan County, Michigan.

**Registered** Jersey Cattle. Some young bulls for sale, ask for pedigree, I would spare a few cows to freshen soon, records kept. Herd accredited. J. L. CARTER, Lake Odessa, Mich.

**For Sale:** Jersey bulls ready for service, cows and heifers due to freshen soon. All cows Register of Merit. Accredited herd. SMITH AND PARKER, R. 4, Howell, Mich.

**FOR SALE** registered Jersey Cows, some due to freshen now, one bull two years old and bull calves. C. H. FRENCH, Mariani, Mich.

**Lillie** Farmstead Jerseys For sale, 3 heifers bred to freshen this fall, 2 bull calves, 6 to 9 mo. old. Colon C. Lillie, Coopersville, Mich.

**Jersey Bull Calves** 7 mos. to near yearlings strong in St. Lamberts. T. B. tested. H. HALSEY, Homer, Mich.

**Jersey Cattle** Young stock for sale. Accredited herd. F. L. BODIMER, Reese, Mich.

**JERSEY** Bull ready for service. Federal accredited herd. High production, and show winners. Choice individual, price low. C. S. Bassett, Kalamazoo, Mich.

**BIDWELL SHORTHORNS**  
BUY A BULL

that will put weight on your dairy calves - the difference will soon pay for the bull. Now selling good Scotch and Scotch-topped yearlings, reasonably priced. We guarantee every animal to be a breeder. Federal Test. One hour from Toledo, Ohio, N. Y. C. R. R.

**BIDWELL STOCK FARM,**  
Box D, Tecumseh, Michigan

**Milking** Shorthorns priced reasonably. An accredited herd selected for beef and milk. Beland and Beland, Tecumseh, Michigan

**BUYING FEEDERS AND SELLING FAT CATTLE**  
At present, is too much like GAMBLING

All experience proves Baby-Beef Growing THE BETTER WAY  
**GROW HEREFORD BABY BEEVES**  
Our Contractors are guaranteed top prices by Detroit Packing Co. Commission, Yardage, Feed and all other expenses, except transportation - only, are cut out. Our plan opens the way to profitable beef-making by Michigan Farmers. In no other way can as much money per cow be earned with so little labor. If you have no beef-bred cows we have them on hand or listed. Study our plan and be convinced. Ooze, wire or write. Right now.

**T. F. B. SOTHAM & SON**  
(Cattle Business Established 1839)  
Phone 250 St. Clair, Michigan

**HEREFORDS**

For Sale at Farmer's prices.  
5 yearling bulls 8 yearling heifers  
10 of the above sired by our \$5200 Repeater bull. We have others not related. This is an opportunity to start in good stock at a moderate price.

**ALLEN BROS.**  
616 So. West St., Kalamazoo, Mich.

**Herefords For Sale.** Bulls, cows and heifers. RALPH CALHOON, Bronson, Mich.

**Polled** Herefords - A few past yearling heifers for sale. Also some cows due to calf soon. Write for prices. Lloyd F. Wilson, Angola, Ind.

**FOR SALE**

**Polled Shorthorn Cows & Heifers** in calf and calf by side. Also a few young bulls. Herd headed by Victor Sultan and Royal Nonpareil. We can please you in richly bred cattle with quality at farmers' prices. GEO. E. BURDICK, Mgr. Branch County Farm, Coldwater, Mich.

**RICHLAND SHORTHORNS**

We are offering two splendid white yearling bulls by Imp. Newton Champion and a few extra good heifers and young cows at very attractive prices. For full particulars write to

**C. H. PRESCOTT & SON,**  
Herd at Prescott, Mich.  
Office at Tawas City, Mich.

**Central Mich. Shorthorn Breeders' Assn** offer for sale both milk and beef breeding, all ages. Write M. E. MILLER, Sec'y, Greenville, Mich.

**Shorthorns** for sale. ENTIRE herd just passed State Tuberculosis test. J. A. BARNUM, Union City, Mich.

**Milking Shorthorns** Bull calves for sale. Also 2 cows. ROSEMARY FARMS, Williamston, Mich.

**For Sale Shorthorn Bulls** Berkshire Boars. SIMON G. MACHELE, Middleville, Mich.

**Clayton Unit** Shorthorn Breeders' Assn. Scotch, Scotch Top and Milking Shorthorns for sale all ages. W. J. Hinkley, Sec'y, Flushing, Mich.

**Milking Shorthorn** Bull 1 yr. old, Red. Bates Breeding, Reg., \$65. IRVIN DOAN & SONS, Oroswell, Mich.

**1 Month** old Shorthorn bull: 1-4 months old Jersey bull. Price right. M. G. MOSHER SONS, Osseo, Mich.

**For Sale** Thirty-two mixed Feeders, average 600 pounds. Good condition. 5 1/2 cents. B. A. COMPTON, R. 5, Marion, Mich.

**Steers For Sale**

All are dehorned and the best of quality. Must be sold at once your choice one load or all. Most all bunches Herefords. Weight 500 lbs. to 1000 lbs. and each bunch even in size, some just fair flesh, account short pasture. Know of light Shorthorn steers 5%e. State number and weight preferred. V. BALDWIN, Eldon, Iowa

**HOGS**

**Every's Berkshires** have proven their superiority at the leading Michigan fairs in 1922. You want the best? Let us help you to get started right. Spring boars priced reasonable. W. H. Every, Manchester, Mich.

**Berkshire** pigs two months old \$10 each. Spring pigs \$20.00 each. Good type and thrifty individuals. Guaranteed O. K. B. B. REAVEY, Akron, Mich.

**Berkshire** gilts, one boar for sale. April farrow from A No 1 stock at very low price. JOHN KERTYS, R. 1, Daggett, Mich.

**Fellow Breeders and Farmers**

Wouldn't you like a real 20th Century Duroc-Jersey Boar, sired by (Fanny's Top Col. 2) world's junior champion 1920 and (Foust's Top Col.) International Grand Champion 1920, the dams The Top Scissors sow of Ohas. Wengers last Feb. sale. And the top sow of Ira Jackson's great sale last Feb. the sow that everybody wanted sired by (Walter Joe Orion) by (Joe Orion 2) Dam (Orion King Lady) by (Orion Cherry King) also a choice lot sired by (Liberty Orion) first prize and grand champion of our Allegan Co. Fair 1921 and 1922 with Pathfinder dams. Write or come to the GUN PLAINS STOCK FARM, Plainwell, Mich. Clyde A. Kershaw, Owner.

**Collinsdale Duroc Farm**

L. A. Burhans, Owner. R. 1, Lyons, Mich.

Bred sows, fall and spring gilts for sale. Will have bred sow sale, watch for date. The sale offering of tried sows are of Sensation, Pathfinder, Duration and Great Wonder I Am breeding. Get on the mailing list. Watch for Sale Date.

**DUROC-JERSEYS**

**Mr. Breeder Mr. Farmer**  
Have you selected your BOAR yet? We have some big, growthy spring boars weighing over 200 lbs. They are sired by a son of GREAT ORION SENSATION and one by FOUST TOP COL. Get our prices on them before buying. Write in now!  
**LOEB FARMS** Michigan  
Charlevoix "The Home of Grand Champions"

**Reg. Duroc Jersey Swine**

Spring and Fall Boars of quality sired by 1921 Mich. Grand Champion and Grandson of Scissors, World's 1917 Gr. Champion. Spring, Fall and yearling sows of above breeding. Open or breeding privilege to the undefeated boar pig at 1922 Fairs, a son of Unique Sensation, World's 1921 Junior Champion. Personal inspection invited. F. HELMS & SON, Davison, Mich.

**Duroc Fall Yearling**

and spring boars. Some real herd prospects sired by O. C. K. Col. 2nd. All Col. of Sangamo and Diamond Joe. Priced to sell. Fall pigs either sex. Write for description and prices. W. C. TAYLOR, Milan, Mich.

**Wetsview Duroc Bred Sows**

all sold. Have two spring boars left at a reasonable price. Will book orders for April & May Pigs. ALBERT EBERSOLE, Plymouth, Mich.

**Woodlawn Farm** Duroc Hogs meet requirements, size and quality. Young stock for sale at reasonable prices and fully guaranteed. Write your wants. W. E. BARTLEY, Alma, Mich.

**Oakwood Farm** offers choice gilts of Orion Cherry King and Walt's Top Col. breeding bred to Pathfinder Orion for Aug. and Sept. farrow. RUSH BROS., Romeo, Mich.

**Duroc Jerseys** We have a choice lot of spring boars ready for service. Will ship on approval. Satisfaction guaranteed. F. J. DROTT, R. 1, Monroe, Mich.

**Durocs** - choice lot spring boars, sired by Great Duration, Brookwater Satisfaction 8th and Greater Orion King. Norris Stock Farm, Casnovia, Mich.

**BROOKWATER DUROC JERSEYS**

**Ready for Service Boars**  
Sired by Panama Special 55th and Big Bone Giant Sensation. BROOKWATER FARM, Ann Arbor, Michigan. H. W. Mumford, Owner, J. B. Andrews, Lessor.

**DUROCS** either sex of Orion breeding good quality, spring \$25 to \$35, few yearling gilts at \$40 and Holstein heifers. H. G. KRESLER, Cassopolis, Mich.

Undeclared under year Duroc boar of Michigan and Junior champion at state fair and a number of other boars for sale. Sensation and Pathfinder breeding predominating. Michigana Farm, Pavilion, Mich.

**Duroc** spring boars, gilts, summer and fall pigs guaranteed. Jesse Bliss & Son, Henderson, Mich.

**DUROC-JERSEYS** Do you want a good Pathfinder boar pig? E. D. HEYDENBERK, Wayland, Mich.

**DUROC-JERSEYS** Spring Boars for sale. CAREY U. EDMONDS, Hastings, Mich.

**DUROCS** Spring boars and gilts, Pathfinder breeding. Sturdy individuals. OLARENCE B. GALKINS, Wayland, Mich.

**Pleasant View Durocs** Spring boars and gilts, Choice individuals at reasonable prices. W. C. Burlingame and Son, Marshall, Mich.

**Durocs** all ages, very prolific, big bone, good breeding. Write for prices, age, etc. Satisfaction or money back. B. E. KIES, Hillsdale, Mich.

**BIG TYPE CHESTER WHITES**

The prize winner kind from the best prize winner bloodlines. Early developers, ready for market at six months old. I have started more breeders on the road to success than any man living. I want to place one hog in each community to advertise my herd. Write for agency and my plan. G. S. BENJAMIN, R. F. D. 10, Portland, Mich.

**Chesters** We are sold out of Boars. Choice spring pigs, write WEBER BROS. Royal Oak, Mich., 10 mi. and Ridge Rds., Phone 408.

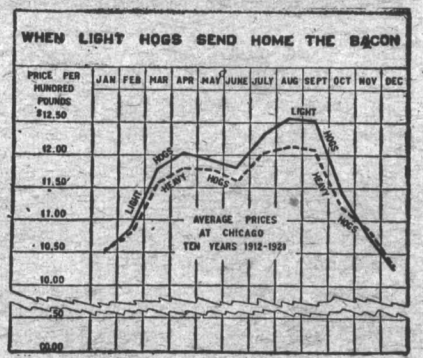
**THE GREATEST LIVE STOCK SCHOOL**

(Continued from page 557).

disease-resistant strains of all our leading crops is one of the greatest needs of agriculture. A visit to the International Grain and Hay Show will enable one to become familiar with the latest developments in the production of better seed, not only in Michigan, but in practically every state of the Union.

One of the valuable educational features of the International will be the graphic illustrations of the results of experimental work conducted by all of the midwest agricultural colleges and the United States Department of Agriculture. These exhibits are so prepared that a few moments observation will enable the spectator to see the results of experiments and comparative efficiency of many rations which have been tested at the different stations and by the United States Department of Agriculture. Other exhibits are prepared to show the latest and most efficient methods of preventing disease and eliminating parasitic troubles.

One of the attractive features of the stock show is the active participation by members of boys' and girls' junior live stock clubs and agricultural college students. Last year boys' and girls' judging teams from twelve states participated in the junior live stock judging contest and over five



hundred winners of club contests in the various states attended the show. The judging contest for college students was participated in by students from eighteen states and three provinces of Canada. Michigan will be represented in both of these contests.

With the International Live Stock Show located within the Union Stock Yards at Chicago, which are the greatest live stock markets in the world, and immediately adjacent to the immense packing plants, the visitor is afforded an opportunity to make a first-hand study of live stock marketing and the way in which his products are sold and how they are prepared for the consumer. All of the packing houses are open to visitors, with guides to show people to points of interest, during this week. The stock yards furnish an opportunity to study live stock marketing and values first-hand and provide the visitor with an accurate knowledge as to market demands and how they can best be met.

The Union Stock Yards occupy an area of 500 acres, nearly all of which are paved. They contain over 13,000 pens, 8,500 of which are double-decked and covered; twenty-five miles of watering troughs and 300 miles of railway tracks for getting stock in and out. Separate yards are provided for sheep, hogs and cattle. Sheep and hogs are sheltered in covered sheds, most of them double-decked, while cattle are yarded in open pens. These yards have a capacity of 75,000 cattle, 125,000 sheep, 300,000 hogs and 6,000 horses and mules, at one time. In the neighborhood of 15,000,000 animals are marketed here each year. Often as many as 2,000 carloads of live stock are received in one day. A visit to this remarkable institution is a liberal education in itself to the man interested in producing meat animals.



Practically every day during the week of the stock show, there will be auction sales of purebred breeding animals, where interested parties may obtain first-hand information of the value of pure-bred breeding animals and obtain better live stock for his own farm.

As an entertaining feature, night shows are staged in the immense arena each evening. These shows are usually opened with a parade of purebred draft horses, followed by exhibitions with saddle horses, jumping horses, driving horses, hitched single, abreast and in tandems, usually a game of pony polo, and often a demonstration of handling sheep and live stock by thoroughly trained dogs. The driving and judging of six-horse draft teams is also an interesting feature of the evening shows, all of the features being accompanied by the best musical talent obtainable.

Many Michigan exhibitors will be showing at the International this year. Every Michigan farmer interested in better live stock can well afford a trip to this show; better still, he can afford to take his entire family and become acquainted with and rub shoulders with fellow agriculturists from every state of the Union.

# Veterinary.

CONDUCTED BY DR. W. C. FAIR.

Advice through this column is given free to our subscribers. Letters should state fully the history and symptoms of each case and give name and address of the writer. Initials only are published. When a reply by mail is requested the service becomes private practice and \$1 must be enclosed.

**Question.**—Should a fresh cow drink its milk? Subscriber, Wayne County, Mich.—No, this is not proper food for her.

**Opacity of Cornea.**—My five-year-old dog has scum covering both eyeballs which has almost destroyed vision. D. McC., Port Hope, Mich.—Blow some calomel into eyes once a day.

**Diarrhea.**—I bought a nine-year-old cow last spring and for the past three or four months she has not thrived; besides, she has diarrhea all the time. I wish you would tell me what can be done for her. R. F., Hesperia, Mich.—Stable her, water often, give her one dram of salol at a dose three times a day.

**Diseased Udder—Bloody Milk.**—My three-year-old cow has one bad quarter and she gives bloody milk. Have given her several kinds of remedies, none of them help her. M. J. H., Casnovia, Mich.—Apply camphorated oil to udder daily, give her a dessertspoonful of nitrate of potash in feed twice a day. Rough milking is a common cause of cows giving bloody milk.

**Partial Loss of Power.**—Can you tell me what can be done for my heifer? She came fresh in July, made good recovery, but soon after she was bred, acted dumpish, back arched and was unable to raise her tail. Local veterinary examined her and prescribed a remedy, but she shows no improvement. Has poor appetite, hangs head, walks slow. L. R., Ewart, Mich.—One of the bones of tail may have been fractured, or displaced at time of service; if so, this would be likely to cause paralysis of the tail. Very little can be done for her if my suppositions are right. Give her one dram of fluid extract of nux vomica and three drams of Fowler's solution at a dose three times a day. Apply hot pack to back and rump two or three times a day.

**Weakness.**—I have a cow that gave five or six quarts of milk the day before she came fresh. After calving she soon increased to twenty-five quarts a day; she now gives eighteen quarts daily, but she is getting thin, walks slow and is seemingly weak. When milked she switches as if flies bothered her, she also cramps in hind legs. E. J., Cornell, Mich.—Your cow is weak and nervous, the ligaments of stifle joints are weak, allowing cap to slip out of place. Increase her grain ration, give her one dram of ground nux vomica, half ounce of powdered gentian and a teaspoonful of salt in feed two or three times a day. Apply equal parts of turpentine, aqua ammonia, raw linseed oil to stifle joint daily.

# HOLSTEIN DISPERSAL

AT Bridgeman, Berrien County, Mich.

75 miles from Chicago on P. M. Railway

## FRIDAY, DECEMBER 1, 1922

Beginning at 11 A. M. Sharp the undersigned will sell at Public Auction

### 48 REGISTERED HOLSTEIN CATTLE

Consisting of 21 head of cows, mostly high in calf, the majority of which have creditable 7 day records. Balance of herd consists of 16 females in junior and senior yearling and calf form, and 10 young bulls, 3 of which are ready for service. The young animals are all sired by King Valdessa Pontiac Master No. 273071, a 32 pound son of King Valdessa Pontiac No. 189344, the former Bell Farm 40 pound herd sire whose daughters at Bell farm are proving very sensational producers.

All the cows in the herd are bred to this splendid young bull, who is also offered for sale.

The herd is free of Tuberculosis having been tested at regular intervals by approved state vets. and a retest privilege will be given all purchasers.

Six months time will be extended to those desiring it on approved notes.

### DATE HOLSTEIN FARMS

Bridgeman, Berrien County, Mich.

Sidney S. Date, Prop.; J. E. Mack, Auctioneer; W. Osborn, Ped. Man. Grant E. Volland, Mgr.

#### HOGS

**Big Type** Chester Whites. Spring boars and fall boar pigs sired by Hill's Big Buster, 3rd prize yearling at the 1922 State Fair. LUCIAN HILL, Tekonsha, Mich.

**CHESTER WHITE BOARS** Prize winners, from prize winning stock, for sale at reasonable prices. F. L. Bodimer, Reese, Mich.

**Chester Whites** We still have some good March boars for sale also fall pigs, both sexes at right prices. F. W. ALEXANDER, Vassar, Mich.

**Saginaw Valley** O. I. C's, won four silver cups at Saginaw Fair on aged boar and sow, Jr. Sow and Sow Pig; also Grand Champion Sow at West Mich. Fair. We raise the hogs that hog the prizes. Serviceable boars at \$25. Papers furnished. JOHN GIBSON, Fosters, Mich.

**O. I. C's.** Breeding stock of all ages. 20 boars, buy now. Grand Champion Boar and Sow at Michigan State Fair. Stock cholera immune. Will ship on approval. Come and see my herd. Farm located S. E. of Flint on Atherton Rd. next to D. U. R. EARLE R. MORRIS, R. 6, Flint, Mich.

**Registered O. I. C. Boars** J. CARL JEWETT, Mason, Mich.

**O. I. C.** 50 last spring pigs either sex not akin. Big, growthy stock, recorded free. 1/4 mile west of Depot, Otis, Phone. OTTO B. SCHULZE, Nashville, Mich.

**O. I. C. & Chester White** Swine strictly big type with quality. The kind that grow large. A few spring pigs either sex. Newman's Stock Farm, R. 4, Marlette, Mich.

**O. I. C. & Chester White** Choice pigs 8-10 wks. old, either sex \$10.00. Prominent bloodlines. Shipped on approval. Recorded free. CLARE V. DORMAN, Snover, Mich.

**O. I. C's.** Spring gilts and service boars for sale. Prices right. A. J. BARKER & SON, Belmont, Mich.

**O. I. C's** Spring pigs. Pairs not akin. Also July, August, and Sept. pigs. MILO H. PETERSON, Elmhurst Farm, Ionia, Mich. Otis. Phone

**Registered O. I. C.** April Boars also July Pigs. Shipped O. O. D. CHAS H. STEEL, R. 9, Eaton Rapids, Mich.

**O. I. C.** Boars and Gilts sired by 1921-1922 G. Champion at W. Mich. State Fair. GEO. M. WELTON & SON, Middleville, Mich.

**O. I. C.** 15 large growthy Mar. boars at Farmers' prices. CLOVERLEAF STOCK FARM, Monroe, Mich.

#### Registered O. I. C. Boars

H. W. MANN, Danville, Mich.

**Spring Boars Now Ready To Ship** H. O. SWARTZ, Schoolcraft, Mich.

**Walnut Alley** Big Type, Poland China, the kind that makes good. Boars and gilts ready to go. A. D. GREGORY, R. 3, Ionia, Mich.

**Lone Maple Farm** L. T. P. C. Match Boars and gilts represented. F. R. Davis & Son, R. 3, Belding, Mich.

**Big Type** P. C. Spring boars and gilts ready for new homes. Also sows and pigs. CLYDE FISHER, St. Louis, Mich.

#### LARGE TYPE POLANDCHINAS

Boars and gilts for sale from one of the best herds in Mich. Sired by B's Clansman Mich. 1921 Grand Champion. Alasha, M and W's Orange and Daddy Long Legs 2nd. Give us a visit and look them over if not write to N. F. BORNOR, Parma, Mich.

#### L. T. P. C.

Choice Gilts \$25 to \$40. Boars \$30. Fall Pigs \$15. HART AND CLINE, Address F. T. HART, St. Louis, Mich.

**Big Type P. C.** some very choice boars double immune, out 1100 lb. sire and mammoth sows from Iowa's greatest herds. E. J. Mathewson, Burr Oak, Mich.

#### LARGE TYPE P. C.

Largest in Mich. Pig ready to ship, why not order from the herd that has given so many their start in the hog business, the kind that makes good, they have quality as well as size. W. E. LIVINGSTON, Parma, Mich.

**Leonard's Big Type P. C.** gilts sired by Leonard's Liberator and Orange Clansman and fall Pigs at bargain prices. E. R. LEONARD, St. Louis, Mich.

#### BIG TYPE POLANDS

A few choice boars of March farrow sired by Emancipator 2nd. Double treated for cholera, and ready for service. Come over, or write WESLEY HILE, Ionia, Mich.

**L. T. P. C.** Spring boars and gilts now being shipped. There's a reason. They talk for themselves. Call or write M. M. PATRICK, Grand Lodge, Mich.

#### Large Type Poland Chinas

Spring boars sired by Foxy Clansman 1922 Grand Champion and by F's Clansman 1920 Grand Champion Mich. State Fair. Also two choice 1921 fall boars. All immune by double treatment. Come and see them or write. A. A. FELDKAMP, Manchester, Mich.

**Boars at Half Price** From Mich. Pioneer herd We have been breeding them big for 30 years. Our hogs represent the blood lines of Giant Buster, The Clansman, Liberator, The Yankee, Big Bob, etc. Write for what you want. JNO. C. BUTLER, Portland, Mich.

**Big Type Poland China** spring boars ready for service weighing over 200 lbs. Sired by Hoover's Liberator 1st prize Jr. yearling at Tuscola, Sanilac and Saginaw fairs. Also fall pigs at \$15 each. Shipped on approval. D. HOYER, Akron, Mich.

**BIG TYPE** Poland Chinas, leading strains at lowest prices. Both sex, all ages, and bred sows and gilts. G. A. BAUMGARDNER, R. 2, Middleville, Mich.

**For Sale** Large Type Poland China Boar pigs ready for services, at reasonable price. SCHAFFER BROS., Comstock Park, Mich.

#### Francisco Farm Poland Chinas

Still have a few of those good young boars ready for service. Also Top Notch fall pigs either sex. Both pigs and prices are right. P. P. POPE, Mt. Pleasant, Mich.

**Large Type** P. C. Boars of all ages, at very low prices. Satisfaction guaranteed. R. W. MILLS, Saline, Mich.

**Large Type** Poland. Spring boars and gilts, good big ones weighing up to 250 lbs. Priced right. ARTHUR S. COBB, Stockbridge, Mich.

## CLASSIFIED ADVERTISING

This classified advertising department is established for the convenience of Michigan farmers. Small advertisements bring best results under classified headings. Try it for want ads and for advertising miscellaneous articles for sale or exchange. Poultry advertising will be run in this department at classified rates, or in display columns at commercial rates. Rates 6 cents a word, each insertion, on orders for less than four insertions; for four or more consecutive insertions 5 cents a word. Count as a word each abbreviation, initial or number. No display type or illustrations admitted. Remittances must accompany order. Real estate and live stock advertising have separate departments and are not accepted as classified. Minimum charge, 10 words.

#### Rates in Effect October 7, 1922

Words	One time	Four times	Words	One time	Four times
10	\$.80	\$2.40	26	\$.88	\$2.64
11	.....	2.64	27	.....	2.72
12	.....	2.88	28	.....	2.80
13	.....	3.12	29	.....	2.88
14	.....	3.36	30	.....	2.96
15	.....	3.60	31	.....	3.04
16	.....	3.84	32	.....	3.12
17	.....	4.08	33	.....	3.20
18	.....	4.32	34	.....	3.28
19	.....	4.56	35	.....	3.36
20	.....	4.80	36	.....	3.44
21	.....	5.04	37	.....	3.52
22	.....	5.28	38	.....	3.60
23	.....	5.52	39	.....	3.68
24	.....	5.76	40	.....	3.76
25	.....	6.00	41	.....	3.84

**Special Notice** All advertising copy discontinuance orders or change of copy intended for the Classified Department must reach this office ten days in advance of publication date.

#### MISCELLANEOUS

**TO INTRODUCE** our three yr. old tobacco will sell 10-Pounds "Regular Smoking" 95c. Best Weak Smoking \$1.45. Best Smoking \$2.25. Best Burley Smoking \$2.35. Medium Chewing \$1.95. Best Chewing \$3.25. 3-pounds Best Burley \$1.00. 100 Fine Cigars \$3.95. Pay when received. Pound Sample prepaid 30c. Satisfaction Guaranteed. Catalogue free. Kentucky Tobacco Company, Owensboro, Ky.

**SHORT COURSE IN NURSING**—The Michigan State Sanatorium for Tuberculosis offers a one year's course in nursing approved by the State Board of Registration for Nurses and Trained Attendants, which qualifies for registration as Trained Attendants in Michigan. Apply to Superintendent of Nurses, M. S. S., Howell, Michigan.

**HONEY**—Direct from Producers, 5 lb. pail, Clover \$1.25, Buckwheat \$1.15. Postpaid east of Mississippi River. Onondaga Apiaries, Box 17, Salina, Sta., Syracuse, New York.

**TOBACCO**—Select 3-year-old Kentucky leaf. Pay for tobacco and postage when received. 5 lbs. smoking \$1.25; 5 lbs. chewing \$1.50. Farmer's Union, Hawesville, Ky.

**HOMESPUN TOBACCO.** Chewing: 5 pounds, \$1.75; 10 pounds, \$3; 20 pounds, \$5. Smoking: 5 pounds, \$1.25; 10 pounds, \$2; 20 pounds, \$3.50. Send no money, pay when received. Co-operative Tobacco Growers, Paducah, Kentucky.

**NATURAL LEAF TOBACCO.** Chewing: 5 pounds, \$1.75; 10 pounds, \$3; 20 pounds, \$5. Smoking: 5 pounds, \$1.25; 10 pounds, \$2. Pay when received. Tobacco Growers' Union, Paducah, Ky.

**NATURE BRAND HONEY**—Delicious, wholesome. Direct from the bee farm. Five pounds \$1.00, postpaid. Elmer Luebeck, Knox, Indiana.

**Choice Boars** ready for service. Priced to sell. Also sows and gilts. C. E. GARNANT, Eaton Rapids, Mich.

**Hampshire** Spring boars now ready, place your order soon. 10th year. JOHN W. SNYDER, R. 4, St. Johns, Mich.

**Hampshire Boars** Hampshires top the market, why not raise that kind? We have sons and grandsons of Maplewood Payroll, 1st prize aged boar Mich. State Fair, 1922 and other State Fairs Spring boars wt. from 160 to 270 lbs. Immuned. G. H. DODDS, R. 5, Kenton, O.

#### SHEEP

### Kope-Kon Farms

Offers the best in yearling Shropshires of course. Also choice of the best lot of Ram Lambs you will see this year. Follow M 29.

S. L. Wing, Coldwater, Mich.

**SHROPSHIRE RAMS** Come to the farm or write Dan Booher, R. 4, Ewart, Mich.

**Strong** robust one and two yr. old Wool-Mutton Shropshire rams priced right. Tell us what you want. Maplewood Stock Farm, Allegan, Mich.

**FOR OXFORDS,** rams, ewes and ewe lambs, write WM. VAN SICKLE, R. 2, Deckerville, Mich.

**For Sale** Oxford rams and ewes all ages, guaranteed breeders. Write or call at farm. Geo. T. Abbott, Palms, Mich., Tel. Deckerville 78-3.

**Cotswolds** 50 head Rams and Ewes all ages, no better stock in State. Write or phone A. M. BORTEL, Britton, Mich. Phone no. 706.

**REG. DELAINE RAMS** At Farmer Prices. Write or Come CALHOUN BROS., Bronson, Mich.

### 1400 Breeding Ewes FOR SALE

In lots of 50 or more, black faced, from 1 to 4 yrs old; no broken mouths, in good condition, located 22 miles S. W. of Detroit on Detroit and Toledo electric and Dixie Highway. Telegraph address, Rockwood Almond B. Chapman, So. Rockwood, Mich.

**Reg. Hampshire** ewes. Also ram lambs. Best of breeding. Priced to sell. W. W. CASLER, Ovid, Mich.

**Delaine Rams,** extra fine ones bred for free. F. H. RUSSELL, Box 41, Wakeman, Ohio

**FOR SALE** A few choice Cotswold and Leicester sheep, both sexes. W. T. SHUTTLEWORTH, R. #4, Ypsilanti, Mich.

**Hampshire Rams. Prices Right** M. G. MOSHER & SONS, Osseo, Mich.

#### HORSES

**For Sale** Shetland ponies, on the installment plan. Write BERT MORGAN, 309 Howard Street, Petoskey, Mich.

#### POULTRY

**ROSE AND SINGLE COMB R. I. Reds.** At Indiana State Fair, Sept. 4-9, 1922, we had 7 blue ribbon winners, 9 seconds, 2 thirds and 2 fifths. Stock for sale reasonable. F. A. LANGOHR & SON, Columbia City, Ind.

**RHODE ISLAND REDS, R. C.** Large fancy cockerels and pullets at \$3 each. Burt Sisson, Imlay City, Mich.

**SUPERIOR** Ringlet Barred Rock Cockerels, early hatched, extra fine. Prices reasonable. J. L. WYNDHAM, ITHA, Ohio.

**PURE BRED** Mammoth Bronze Turkeys. Exceptionally large, vigorous birds, both sexes. Mrs. Ralph Sherk, Caledonia, Mich.

**GRABOWSKIE'S** S. C. White Leghorns, cockerels and pullets for sale. Leo Grabowski, R. 4, Merrill, Mich.

**FOR SALE,** 100 pullets (mixed) average 3 lbs. should lay soon, \$1.25 each, crate lots only. ADAM DOLL, Lapton, Mich.

**PUREBRED** Light Brahma Cockerels. Mrs. E. B. Willits, R. 1, Reading, Mich.

**LIGHT** Brahma Cockerels. Fine big utility birds \$3.50. William Adams, R. F. D. 5, Plymouth, Mich.

**NARRAGANSETT TURKEYS.** Toms \$10 up, hens \$8. Get your order in early while choice is good. Ernest Clement, Ionia, Mich.

**JAPANESE SHIKI BANTAMS.** Beautiful and useful pets. Ideal for the backyard flock. Ashley Phelps, R. 3, Ionia, Mich.

**GIANT BRONZE TURKEYS.** Vigorous purebred stock. Best strains, large type, fine coloring. Unrelated stock. Write Mrs. Perry Stebbins, Saranac, Mich.

**200 GIANT S. C. Black Minorca** cockerels none better \$2.25 each. Mike Schaefer, R. 1, Essexville, Mich.

**PURE BRED** Mammoth Bronze Toms \$10. Mrs. Irving Charlton, R. 7, Hastings, Mich.

**TURKEYS,** Mammoth Bronze Beauties. Mrs. Eugene Ramsdell, R. 1, Hanover, Mich.

**PURE Bred** Mammoth Bronze Turkeys. Write me. Johnson's Turkey Farm, R. 1, Six Lakes, Mich.

**PEAFOWLS,** Pheasants, Bantams, Pigeons, Guinea Figs. John Hass, Bettendorf, Iowa.

#### HELP WANTED

TWO competent and reliable farm hands, one married, one single, one must be experienced in feeding and milking pure bred and grade Holstein cows; the other with horses, hogs and general farm work. Give full particulars and wages expected. Box T-22, Michigan Farmer.





**GRAIN QUOTATIONS**

Tuesday, November 21.

**Wheat.**

Detroit.—No. 2 red \$1.36; No. 2 mixed \$1.34; No. 2 white \$1.34.  
Chicago.—No. 2 red \$1.27@1.27½; No. 2 hard \$1.20; December \$1.20¼.  
Toledo.—Cash \$1.36.

**Corn.**

Detroit.—Old, Cash No. 2, 79c; No. 3 yellow 78c; new, Cash No. 2, 77c; No. 3, 76c.  
Chicago.—No. 2 mixed 72¼@72¾c; No. 2 yellow 72¾@73¾.

**Oats.**

Detroit.—Cash No. 2 white 49c; No. 3, 47½c.  
Chicago.—No. 2 white 44@45c; No. 3 white 42¾@44c.

**Beans**

Detroit.—Immediate and prompt shipment \$6.75.  
New York.—Choice pea at \$8@8.25; red kidney \$8.50@8.75.  
Chicago.—Michigan choice hand-picked \$5; red kidneys \$5.50@6.

**Buckwheat.**

Clean milling grain \$2.25 per cwt.

**Rye**

Cash No. 3, 92c.  
Chicago.—89c.  
Toledo.—88c.

**Seeds.**

Detroit.—Prime red clover cash at \$12.75; March \$13; alsike \$10.75; timothy \$3.40.  
Toledo.—Prime red clover cash at \$12.90; alsike \$10.60; timothy \$3.45.

**Hay**

Detroit.—No. 1 timothy \$17@17.50; standard \$16.50; light mixed \$16.50@17; No. 2 timothy \$15@16; No. 1 clover \$15@15.50; rye straw at \$11.50@12; wheat and oat straw \$11@11.50 per ton in carlots.

**Feeds.**

Bran \$33; standard middlings \$33; fine do at \$35; cracked corn at \$35@36.50; coarse cornmeal at \$32.50@33; chop \$28.50 per ton in 100-lb. sacks.

**Fruit**

Chicago.—Grapes small baskets 45c; Climax baskets 75@80c; apples, Jonathans \$5.50@6 per bbl; Wageners at \$4@5; Greenings \$5 bbl; Kings \$4.50@5; Northern Spies \$5@6; Baldwins at \$4@4.50.

**WHEAT**

Continuation of brisk domestic milling demand for wheat, together with moderate sales for export, have lifted wheat prices to a new high point for this season. Export demand shows little change. Manitobas still have the preference with most buyers although clearances from the United States are running heavy enough to clean up our surplus if continued through the rest of the crop years. Most of our foreign business has been in durum, which relatively is the cheapest wheat in the world. Political uncertainties have interfered with sales to Europe but developments in Germany, Italy and England in the last few days point to greater stability than heretofore.

**CORN**

Although export demand for corn has practically ceased because of low offers from the Argentine, domestic feeding demand has been brisk and prices for future delivery reached the highest point since the early spring of 1921. The south, the southwest and the west, from Colorado to the coast, are buying in Iowa and Illinois and other surplus states and outbidding the terminal markets which also are blessed with a good demand. The eastern demand appears to be filled up for the present.

**OATS**

Demand for oats also is broad and it is too late to expect a big movement from farms. The visible supply at the terminals is steadily shrinking. Much higher prices for this grain are to be expected before next harvest.

**SEEDS**

Price changes in clover and grass seeds have been small but gains in the last six weeks have been well held. It is estimated officially that 85 per cent of the timothy seed crop has already left the hands of growers. Good-sized export sales have helped this market recently. Two-thirds of the

alfalfa seed likely to be disposed of by growers has already been sold.

**FEEDS**

Contrary to the tone in feed grains, the by-product feed market is slightly easier. The output of all kinds of feeds is heavy and shipments from producing centers are increasing. Demand is said to be limited but it is probable that heavy offerings explain most of the weakness. At present prices, by-product feeds are not out of line with corn and oats.

**HAY**

The hay market is a stable affair with a moderate demand offsetting the light shipments due to a car shortage and stormy weather in surplus districts. Prices are apt to go higher rather than lower.

**POULTRY AND EGGS**

Last August when coolers were filled with the largest storage stock of eggs ever known and a heavy supply was still coming, fresh eggs sold at Chicago as low as 18 cents. They have advanced since to 55 cents, a gain of 200 per cent. The market is probably near the upper limit but should hold around this level for a month or so. Storage eggs are working into a stronger position as the rate of distribution seems to be rapid enough to take care of most of the excess by the first of the year. Poultry receipts have increased and stocks in storage are beginning to accumulate. Prices are holding much better than seemed possible in view of the big increase in production although they are lower than two months ago.

Chicago.—Eggs, miscellaneous 45@50c; dirties 22@23c; checks 21@22c; fresh firsts 50@55c; ordinary firsts 40

@45c. Live poultry, hens at 19½c; springers 17½c; roosters 13½c; ducks 18c; geese 18c; turkeys 35c.

Detroit.—Eggs, fresh candled and graded 45@52c; storage 26@28c. Live poultry, heavy springers at 20@21c; light springers 16@17c; heavy hens at 23@24c; light hens 14c; roosters 15c; geese 20@22c; ducks 23c; turkeys at 38@40c.

**BUTTER**

Butter prices made slight additional gains last week and closed firm, although a nervous undertone was evident, many dealers feeling that the market had practically reached its upper limit. In spite of the reported decline in consumptive demand, the rate of disappearance at the four leading markets in the first half of November was much greater than in the corresponding period of last year. Production is decreasing as shown by reports to the American Creamery Butter Manufacturers' Association but receipts have been unusually heavy partly because delayed shipments are now coming. Since the trend of receipts is apt to be downward in the next few weeks, present prices should be maintained even if the demand is checked to some extent.

Prices for 92-score fresh butter were as follows: Chicago 49½c; New York 49c. In Detroit fresh creamery in tubs sells for 44@46c.

**APPLES**

Shipments of boxed apples are running about as heavy as last year but the supply of barrelled apples is about four times as heavy as a year ago. The total supply remains liberal but prices are holding firm. New York Baldwins are quoted at \$4@4.50 per bbl; Greenings \$3.50@4.50, and mid-

western Jonathans at \$5@6 in consuming markets.

**POTATOES**

Shipments of potatoes have fallen off about 50 per cent in the last month but prices have not responded. Declines occurred on some of the consuming markets but shipping points were generally steady. The chief drawback has been the lack of buying for winter storage as a result of the unfortunate outcome of storage operations last year. Many of the warehouses have not been filled, which points to the probability of a big advance later on. Northern whites are quoted at 75c@1.20 per 100 pounds in midwestern cities.

**BEANS**

The bean market is slightly lower, with choice hand-picked whites quoted at \$7 f. o. b. Michigan shipping points. Kidney beans show no change, with light reds at \$7.75 and dark reds at \$7.50. Producers are not selling more freely and the weakness is due to a slight falling off in demand probably traceable to the approach of inventory time. No pronounced weakness is probable.

**WOOL**

The wool market is quiet but prices are firm and the trend is upward. Transactions have been confined mostly to Texas fall shorn wools which are now moving at a high level. There are rumors of attempts to contract next spring's clip in the west but no actual deals have been reported. Foreign auctions show an upward trend. The holdings in the hands of the British Australian Wool Realization Association on October 31 comprised 1,034,000 bales, a reduction of 856,000 in the past year and 178,000 in the last two months.

**DETROIT CITY MARKET**

Poultry has been active during the past week; the receipts are large but the consumptive demand good. Butter of the best quality is scarce and firm, as also are fresh eggs. Storage eggs are active. Potatoes and fruit are easy because of the abundant supply. Apples are quoted at \$1.50@2.50; cabbage 50@60c per bushel; celery 20@30c per dozen; potatoes \$1.50@1.60 per 150-pound sack; onions \$1.75@2 per 100-pound sack; poultry, live 16@21c per pound; popcorn 4½@8c per pound.

**GRAND RAPIDS**

Tons and tons of poultry were brought into Grand Rapids this week for the Thanksgiving trade next week. Farmers had been saving their best fowls for this trade and as a result the poultry run was one of the best seen in years. The market held fairly steady on fowls and springers, but was inclined to stiffen on turkeys with the dealers bidding 34@36c per pound early this week. Receipts of pullet eggs now constitute about one-quarter of the supplies as they still are small, they are not as yet having much influence on prices. Leaf lettuce was a little stronger. Hogs were easier at 11½c dressed, but other live stock was steady. Beans were steady and wheat prices now are 20 cents a bushel higher than at harvest and threshing time. Potatoes were dull and slow.

**YOUNG BROTHERS' SALE.**

THE sale of Poland China swine by Young Brothers, of Niles, gave an average that ranks well with other sales of the season. The forty-three head brought a total of \$1,686, or an average of a little less than \$40 per animal. The boars sold better than the gilts, the latter averaging \$36.40 while the males were bid off at an average of \$44 per head. Mr. Hockey, of Indiana, paid the highest price of the sale when he bid \$76 for a boar by Jingleale out of Outcross Lady and Glen Pompey, of St. Louis, was second with his bid of \$75 for a boar by Mt. Ranier and Suste Wonder 2d. All the pigs offered were farrowed in March, April and May.

**COMING LIVE STOCK SALES.**

Holsteins.—December 1, Date Holstein Farms, Bridgeman, Mich.

**Live Stock Market Service**

Wednesday, November 22.

**DETROIT**

**Cattle.**

Receipts 552. Market slow on canners and bulls; all other grades 25@50c lower.  
Best steers ..... \$ 7.75@ 8.25  
Handyweight butchers .. 7.25@ 8.00  
Mixed steers and heifers 6.00@ 6.50  
Handy light butchers.... 5.50@ 5.75  
Light butchers ..... 4.25@ 4.75  
Best cows ..... 4.50@ 5.00  
Butcher cows ..... 3.25@ 4.00  
Common cows ..... 2.75@ 3.00  
Canners ..... 2.00@ 2.75  
Choice bulls ..... 4.50@ 5.00  
Bologna bulls ..... 3.50@ 4.50  
Stock bulls ..... 3.00@ 3.25  
Feeders ..... 5.50@ 6.50  
Stockers ..... 4.00@ 5.75  
Milkers and springers...\$ 40@85.00

**Veal Calves.**

Receipts 831. Market steady.  
Best ..... \$11.00@11.50  
Others ..... 3.00@10.00

**Sheep and Lambs.**

Receipts 3,689. Market steady.  
Best lambs ..... \$14.00@14.50  
Fair lambs ..... 12.50@13.25  
Light to common..... 5.00@ 8.00  
Fair to good sheep ..... 6.00@ 7.25  
Culls and common ..... 2.00@ 3.00

**Hogs.**

Receipts 2,854. Market steady.  
Mixed hogs ..... \$8.15  
Roughs ..... 6.75  
Pigs and lights ..... 8.25

**CHICAGO**

**Hogs.**

Estimated receipts today are 27,000; holdover 16,815. Market dull, mostly 10c lower. Bulk of sales \$7.50@7.80; tops \$7.85; heavy 250 lbs up \$7.60@7.85; medium 200 to 250 lbs \$7.60@7.80; light 150 to 200 lbs \$7.60@7.75; light lights 130 to 150 lbs at \$7.85@8; heavy packing sows 250 lbs up \$7.20@7.45; packing sows 200 lbs up \$7@7.25; pigs 130 lbs down \$7.85@8.

**Cattle.**

Estimated receipts today are 16,000. Market steady to lower; calves firm. Beef steers medium and heavyweight

1100 lbs up \$11.75@13.60; do medium and good \$6.75@11.75; do common \$5@6.75; light weight 1100 lbs down at \$9.50@12.75; do common and medium \$5@9.50; butcher cattle heifers \$4.25@10.65; cows \$3.50@8; bulls bologna and beef \$3.65@6.65; canners and cutters cows and heifers \$2.65@3.60; do canner steers \$3@3.75; veal calves light and handyweightat \$8@9.50; feeder steers \$5.25@7.65; stocker steers at \$4@7.65; stocker cows and heifers at \$3@5.25.

**Sheep and Lambs.**

Estimated receipts today are 15,000. Fat lambs weak to 15c lower; sheep and feeders steady. Lambs 84 lbs down \$13@14.75; do culls and common \$9.25@12.75; spring lambs at \$9.75@13.25; ewes \$5@8; ewes cull and common \$2.75@5.25; yearling wethers at \$12.25@14.25.

**BUFFALO**

**Cattle**

Receipts 15 cars. Market is steady. Choice to prime shipping steers, 1,400 lbs and up \$11@12; good to choice shipping steers at \$9.50@10.50; heavy grass steers good quality \$8@8.50; medium to good \$7@8; fat coarse \$6.50@7.50; light native yearlings, of fancy quality \$11@11.50; medium to good at \$7.50@8.50; best handy steers \$7.50@8; plain \$6.50@7.50; handy steers and heifers \$6.25@7.50; western heifers at \$5.50@6; light Michigan butchering heifers \$5.50@6.50; best fat cows at \$5.50@6; medium to good at \$4.25@5; cutters \$2.25@2.75; common and old rims \$1.25@1.75; best heavy bulls at \$4.75@5.50; heavy bologna bulls at \$4@4.75; common bulls at \$3@3.50; best feeders \$7@8; medium feeders at \$6@6.50; stockers good \$5.50@6; light common at \$4@5; best milkers and springers \$60@100; common and medium \$35@50.  
Calves top at \$12.

**Hogs.**

Receipts 50 cars. Market is steady. Heavy \$8.25; yorkers at \$8.25@8.35; pigs \$8.40@8.50.

**Sheep and Lambs.**

Receipts seven cars. Market steady. Top lambs at \$15.50; yearlings \$9@12; wethers \$8@8.50; ewes \$7@7.50.





Twenty-seven years a favorite—and still going stronger than ever—

## HEMMETER'S CHAMPION CIGARS

A strictly hand made smoke—no blending or artificial flavoring—just good old ripe tobacco.

Ask your dealer —today

The Hemmeter Cigar Co., Detroit

**Red Top**  
GUARANTEED  
Double Strength Studed Tee Steel Fence Posts

- The New Post
- The Farmers' Preference
- No Holes—No Rivets
- 25 Per Cent Stronger
- Heavy Anchor Plate
- Aluminized
- The Right Price
- Guaranteed
- Handy Fasteners (Furnished Free)

For New Fences or Repairs. See the New Red Top at Your Dealers. Circular on request.

**RED TOP STEEL POST CO.**  
38-L SO. DEARBORN ST., CHICAGO, ILL.

## Olde Tan Harness Metal-to-Metal

Improved harness construction. Metal wherever there is wear or strain. Every adjustable feature without old fashioned buckles. The superior quality of Olde Tan leather has been recognized for 70 years. Tanned and made by the tanner-manufacturer in the real old fashioned way.

**\$7.50 Down**  
Puts this harness on your horses. You don't need to send any money. We make shipment without a cent. Keep the harness or return it as you choose. If you keep you pay on easy monthly installments. Sold under a full guarantee.

**Write for Free Book** Don't buy any harness until you know all about Olde Tan's marvelous leather and metal-to-metal construction which means double wear.

**BABSON BROS.**  
19th St. and Marshall Blvd.  
Dept. 3108 Chicago, Illinois



Mention The Michigan Farmer When Writing Advertisers

### THE BUSINESS OUTLOOK.

THE conclusions of the committee for economic research of Harvard University are based on the most complete statistical analysis of the business situation that has yet been made so that they deserve considerable weight. This committee has recently expressed the following view of the business prospect:

"The recent decline of stock prices has served to generate considerable pessimism, and has led to statements that business conditions have not improved to the extent anticipated, or that the improvement which has taken place will be of a temporary and illusory character. In view of the case, such misgivings are as unjustified today as they were last January, or even earlier, when business first began to emerge from the trough of the depression.

"At every stage since the turning point in 1921, pessimists have been able to find a multitude of more or less plausible reasons why business could not possibly improve; nevertheless, improvement has developed in the natural course of a normal business cycle. Our "Index of Manufactures" has arisen to substantially the normal level and the widespread unemployment which existed a year ago has been replaced by an actual scarcity of labor in many localities. These facts seem to leave no doubt as to the character of the movement now under way. Our forecast, therefore, remains unchanged. We forecast an upward movement of prices and further extension of business activity, with the strong probability of continuation of the upward swing during the second half of next year."

John Moody, a financial authority whose forecasts of the trend of business have been remarkably close to the mark in the past two years takes a different attitude as to what may happen after the middle of next year.

Mr. Moody says that, "It seems a foregone conclusion that the immediate future of American business is not indicative of a boom; that reaction from the present revival is not many months ahead of us, and that while the first few months of 1923 may be relatively prosperous, we may run into a period of deflation before the end of 1923.

"What may reasonably happen in 1923 in the security markets is a sharp culmination of the recent long rise in stock prices in the early part of the year; a moderate strain on the money market during the winter and spring, followed by a pronounced ease in interest rates later on, with bond prices holding for awhile, then sharply weakening, and finally setting in for a renewed rise, which may be of long duration.

"The only possibility to change this picture would be unexpectedly favorable developments in Europe, but which are not in sight."

Mr. Moody bases his conclusion that the present upward swing will culminate some time next year on the fact that the American farmer, representing one-third of our population, is not receiving an equal chance at prosperity and is unlikely to receive it until Europe is led out of the wilderness and foreign markets for farm products are improved.

### CONFERENCE ON GRAIN RUST.

SEVENTY-FIVE members of the conference for the prevention of grain rust, representing thirteen states in the spring wheat belt, were present at the second annual meeting of the organization at the University Farm, St. Paul, on November 4.

The delegates from Michigan were James Nicol, of South Haven, presi-

dent of the State Farm Bureau Federation; J. A. Doelle, commissioner of agriculture, Lansing, and Walter F. Reddy, state leader of the federal barberry eradication forces, East Lansing.

The most important action was the adoption, by a unanimous vote, of a resolution urging congress to appropriate \$500,000 for a continuation of the war on the common barberry bush next year and recommending that the various states in the spring wheat area participate in the campaign in proportion to the seriousness of their individual rust problems.

### APPLICATIONS POURING IN.

IT is reported that applications for membership in the Federated Fruit and Vegetable Growers, Inc., are now being received. The first applicant was the South Haven Fruit Exchange, of South Haven, Michigan, which ships around seven hundred cars a year. Permanent organization of the national concern was completed at a meeting of the directors in New York on October 21. James Nicol, president of the Michigan State Farm Bureau, was made chairman of the executive committee.

Warranted to Give Satisfaction.

## Gombault's Caustic Balsam

Has Imitators But No Competitors

A Safe, Speedy and Positive Remedy for Curb, Splint, Sweeney, Capped Hock, Strained Tendons, Founder, Wind Puffs, Skin Diseases, Parasites and Thrush, and Lameness from Spavin, Ringbone and other Bony Tumors. Removes Bunches from Horses or Cattle.

For Human Use Caustic Balsam has no equal as a Liniment and Counter-irritant for Inflammatory and Muscular Rheumatism, Sore Throat and Chest Colds, Growths and Stiff Joints.

A Perfect Antiseptic—Soothing and Healing if applied immediately to Burns, Bruises or Cuts.

Every bottle will give satisfaction. Sold by Druggists or sent by parcel post on receipt of price \$1.50 per bottle. Send for descriptive circulars and testimonials.

The Lawrence-Williams Co., Cleveland, O.

### RESET DOOR KNOBS—STOP LEAKS WITH SMOOTH-ON IRON CEMENT No. 1

ANYONE can make lasting household and motor repairs with Smooth-On No. 1. As easily applied as putty—lasting as iron. For repairing leaks, cracks or break in kitchen utensils, pipes, motor radiators, etc. FREE illustrated booklet sent on request.

Sold by Hardware and General Stores in 6-oz. tin 30c (by mail, add 6c); also in 1-lb., 5-lb. and larger sizes.

**SMOOTH-ON MFG. COMPANY**  
Dept. 42-V Jersey City, N.J., U.S.A.

SEND FOR **FREE BOOK**

## Charles J. Yokom & Co.

12th St. Produce Yards  
DETROIT

Our business is to sell your Potatoes, Cabbage, Onions, Hay, Beans in carlots or less at highest market prices.

Try us—returns will convince you.

References—First National Bank

### BEANS WANTED

Send one pound fair sample. State how many. Give shipping point. We will bid straight price your station. Clover Seed wanted also.

A. H. FOSTER CO., Allegan, Mich.

## Prices Shot to Pieces

These Automatics are Brand New and use Regular Standard Ammunition

### Lowest Prices in the Country

Protect Your Home against unlawful intrusion with your choice of the following guns.

<b>Broncho</b>	25-cal. 6-shot Blue Steel Dependable Pocket Arm, No. 148	\$9.75
<b>Ortgies</b>	25-.32 or .380 cal. 8-shot Blue Steel Inlaid Hard Wood Grip, No. 648	\$10.25
<b>Military</b>	Model .32-cal. 10-shot with Extra Magazine Free, No. 248	\$10.25
<b>Mauser</b>	25 cal. 8-shot World Famous Gun, No. 848	\$14.00
	.32-cal. Mauser, No. 848-A	\$15.00
<b>Luger</b>	30-cal. 9-shot, most powerful gun made, with automatic magazine ejector, No. 948	\$21.00
<b>Protector</b>	25-cal. bluesteel automatic, only few left, No. 348	\$7.25
<b>Quintette Revolver</b>	.32 and .38-cal. Revolver (popular break open style) 5-shot, 3-in. barrel, nickel or blue, No. 648	\$11.85

Furnished with Pearl Grips, \$3 extra  
Satisfaction Guaranteed or Money Back  
Send cash, M. O. or, if you prefer

### SEND NO MONEY

Pay Postman on arrival, plus postage.  
Free Catalog on Request

**Edwards Import Trading Corp.,**  
258 Broadway, New York

## ABSORBINE STOPS LAMENESS

from a Bone Spavin, Ring Bone, Splint, Curb, Side Bone, or similar troubles and gets horse going sound. It acts mildly but quickly and good results are lasting. Does not blister or remove the hair and horse can be worked. Page 17 in pamphlet with each bottle tells how. \$2.50 a bottle delivered. Horse Book 9 R free.

**ABSORBINE, JR.**, the antiseptic liniment for mankind, reduces Painful Swellings, Enlarged Glands, Wens, Bruises, Varicose Veins; heals Sores. Allays Pain. Will tell you more if you write. \$1.25 a bottle at dealers or delivered. Liberal trial bottle for 10c stamps.

**W. F. YOUNG, INC.** 268 Temple St., Springfield, Mass.

## CONE-SHAPE GRINDERS

IT PAYS TO GRIND ALL GRAINS

Look to the Grinders. They do the work! Bowsher's Cone-Shape grinders are the correct principle in Feed Mill construction. They mean larger grinding surface close to center of Shaft; thus More Capacity, Lighter Draft, Longer Life.

"Desire to express my appreciation of the long-lasting, trouble-proof Bowsher. Have used a No. 4 ten years with less than One Dollar per year for repairs." R. W. Watt, Jacobsburg, O.

10 sizes; 2 to 25 H. P. Write for free catalogue.

**D. N. P. BOWSHER CO., SOUTH BEND, IND.**

## 5 — Good — \$ 1

### Magazines

Woman's World, (Monthly) Our Price  
Good Stories, (Monthly) \$1.00  
American Woman, (Monthly)  
The Household, (Monthly) ALL FIVE  
The Farm Journal, (Monthly) FOR 1 YEAR  
ORDER BY CLUB NUMBER 11

A Dollar Bill will do—We take the risk

Send all orders to  
**Whitlock & Summerhays**  
25 North Dearborn Street, CHICAGO

## HIDES

Why sell cheap? Make more tanning at home for use and sale. New book \$1.00. Also explains how to skin, handle for highest prices. Descriptive folder free.

**A.R. Harding, Pub., Dept. 13, Columbus, O.**

### TANNING

WRITE FOR OUR REDUCED PRICES, CATALOG, AND SAMPLES for tanning hides and furs for Robes, Coats, Harness, Sole, Lace and Glove Leather.

**STEVENS POINT TANNERY**  
Stevens Point, Wis. Established 1895

Hides Tanned or exchanged. Leather sold direct to farmers.

**COCHRAN LEATHER CO., Greenville, Mich.**

### A BETTER COMMISSION SERVICE

If you appreciate honest returns, quick service, and courteous treatment you will consign your poultry, dressed veal and hogs and eggs to

**Gunsberg Packing Co., Inc.**  
2460 Riopelle Street, Detroit, Mich.  
Write for tags and quotations.

### HAY AND PRODUCE SHIPPERS

Ship to E. L. RICHMOND CO., Detroit, Mich. 30 years in business.



**Send No Money**

This page of sensational bargains will prove beyond a doubt how Sharood saves you money on cold weather needs. Here are values absolutely unequalled anywhere else in America. We have fairly "knocked the bottom out of prices" to make these amazing offers. Send and judge for yourself. Let us prove at our own risk that, quality for quality, Sharood's values are unmatched. Don't put off sending. Mail your order today!



**Manchurian Wolf Fur Scarf** **\$3.98**

There isn't a woman anywhere that doesn't want and need a handsome fur scarf. And Sharood offers an unusual value at a price within the reach of everyone. This scarf is about 46 inches long and 12 inches wide. It is stylish as well as warm. The lining is good quality satin, and there is an extra ruffling laid around the neck inside, so as to protect the fur from wearing. Only the most expensive fur scarfs have the features which we offer you at this bargain price. Order black Manchurian wolf scarf by No. 58E5193. Order brown by No. 58E5194. Send no money. Pay \$3.98 and postage on arrival. If not satisfied, your money will be refunded. Be sure to state color wanted.

**Sharood Knocks the Bottom Out of Prices**



**Women's Black Calf or Kid Hi-Cut** **\$1.98**

Send for this handsome, rich calf or black kidskin shoe. Note the medium toes with pretty imitation perforated tips, the perforation around vamp and on lace stays. Very popular model and really a sensational bargain now. Durable, flexible soles. Sizes 2 1/2 to 8. Wide widths.

Order kid by No. 58A122. Pay \$1.98 and postage on arrival. Order calf by No. 58A476. Pay \$1.98 and postage on arrival. State size.



**Exquisitely Embroidered Garbardine Dress** **\$2.98**

This delightful model is of beautiful cotton garbardine in navy blue or brown. The vestee, bell sleeves and fashionable panels are richly embroidered. Belt ties at back. Sizes 16 to 44. Order Navy by No. 58E5525. Order brown by No. 58E5526. Send no money. Pay \$2.98 and postage on arrival.

**Pay on Arrival**

Don't send one cent. Just a letter or post-card brings you any of these smashed price bargains. Merely give name and number of each article you want. Also state size and write your name and address plainly to avoid delay. Pay nothing till goods arrive—then only the amazing bargain price and postage. If you are not delighted with your bargain return the goods and your money will be cheerfully refunded. **ORDER NOW.**



**Women's Warm Fleece Lined Comfort Shoes** **\$2.29**

You'll never get cold feet in these splendid kid-finished comfort shoes. Uppers are warm, thick, cream-fleece lined. Splendid natural oak soles; low rubber heels. Roomy comfort last, built in wide widths. Sizes 2 1/2 to 8.

Order by No. 58A396. Send no money. Pay only \$2.29 and postage on arrival. Money back if not satisfied.



**Comfort Work Shoe for Men** **\$1.79 Up**

Order your pair quick—while this bargain offer lasts. Wonderful work shoe for men. Has soft, strong uppers that resist barnyard acids. Solid leather insoles. All seams stitched with waxed thread. Strong leather soles. Wide widths. Sizes 6 to 11. Order No. 58A738. Send no money. Pay \$1.99 and postage on arrival. Order boys' sizes, 1 to 5 1/2 by No. 58A554. Price \$1.89. Order little gents' sizes 9 to 13 1/2 by No. 58A555. Price \$1.79 and postage on arrival. Mention size.



**"Stylish Stout" Garbardine Dress** **\$3.98**

Women of large figure will see in this new model their ideal dress. Planned to give long slendering line to stout figures. Note how the collar reverses and panels carry out the long effect. Note, too, the attractive embroidery on sleeves, vestee and panels. The self-material belt ties at back. Sizes 39 to 53. Order Navy by No. 58E5470. Black by No. 58E5471. Brown by No. 58E5472. Send no money. Pay \$3.98 and postage on arrival. State size.



**Women's Fur Collared Coat** **\$5.98**

Sharood proves again their claim to the "lowest prices in America" in presenting this pressed Velour Coat. A practical and good looking model with generous collar of real Brown Coney fur. All-around belt and button trimming. Sizes 16 to 20; women's 34 to 46. Order No. 58E5703. Send no money. Pay \$5.98 and postage on arrival.



**Fur Trimmed Coats for Girls** **Only \$3.98**

A sensational bargain—a handsome coat of Pressed Velour in Navy Blue or Brown, regular \$7 value. Has collar of genuine Kit Coney, which buttons snugly around throat. Belt all around, two novelty pockets and two buttons at back. Sizes 7 to 14 years. Order brown by No. 58E5595. Order navy by No. 58E5596. Send no money. Pay \$3.98 and postage on arrival.



**Men's Underwear 99c**

Heavy weight flat knit union suits of long fibre cotton in popular Jaeger or grey Random color. Brushed fleece lining on inside. Wrists and ankles elastic knit. Sizes, 34 to 46 chest. Order Jaeger color No. 58C1279. Random Grey No. 58C1280. Pay 99c and postage on arrival. State size. Boys' Flat Knit Union Suits of fine quality cotton. Sizes 22 to 34, for 3 to 16 years. Order by No. 58C1358. Pay 89c and postage on arrival. State size.



**Women's and Misses' Gun Metal Lace Hi Cuts** **\$1.89 AND UP**

Very dressy black gun metal side leather high cut. Extension oak soles. Leather insoles. Broad heels. Modified English last. Black. Order Misses' sizes 1 1/2 to 2 by No. 58A475. \$1.89. Women's sizes 2 1/2 to 8 by No. 58A476, \$1.99.



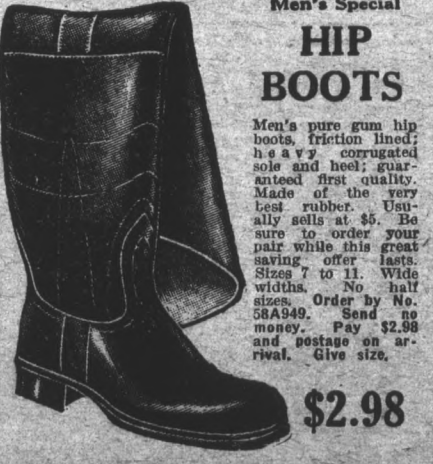
**Men's & Boy's Blucher** **\$1.98 Up**

Wonderful 11-inch Hi-Cut Storm Boots of soft brown cowhide leather, absolutely barnyard proof. Solid leather. Double Chrome outsoles, sewed and nailed; solid leather insoles; durable counters; dirt-excluding bel-lows throughout with heavy waxed linen thread. Sizes 6 to 12. Wide widths. Order by No. 58A769. Send no money. Pay \$2.98 and postage on arrival. State size. Order boys' sizes 1 to 5 1/2 by No. 58E570. Price \$2.48. Order little boys' sizes, 9 to 13 1/2 by No. 58E571. Price \$1.98. Send no money.



**Men's Four-Buckle All Rubber ARCTICS** **\$1.98**

Order Quick. Guaranteed best quality all rubber 4-buckle hi-cut arctic for men. Made with double thick soles and seams reinforced. Snow-excluding tongue. Furnished in men's sizes 6 to 13. Wide widths. Sensational value. Send quick. Order by No. 58A890. Send no money. Pay \$1.98 and postage on arrival. State size.



**Men's Special HIP BOOTS** **\$2.98**

Men's pure gum hip boots, friction lined; heavy corrugated sole and heel; guaranteed first quality. Made of the very best rubber. Usually sells at \$5. Be sure to order your pair while this great saving offer lasts. Sizes 7 to 11. Wide widths. No half sizes. Order by No. 58A949. Send no money. Pay \$2.98 and postage on arrival. Give size.



**Women's Felt Moccasins** **98c**

Fine grade wool felt with combination insert of fawn. Sizes 3 to 8. Order American Beauty by No. 58A389. Order Blue by No. 58A390. Order Lavender by No. 58A391. Send no money. Pay 98c for any color. State Size.



**Men's Felt Shoes and High Cuts** **\$1.79 UP**

Extra high cut or regulation height felt shoes of excellent wearing quality. Thick soles and heels. Sizes 6 to 12, wide widths. Order high cut by No. 58A883. Pay \$1.98 and postage on arrival.

Order regulation cut by No. 58A889. Price \$1.79. Send no money. Pay bargain price and postage. State size.