

# MICHIGAN FARMER

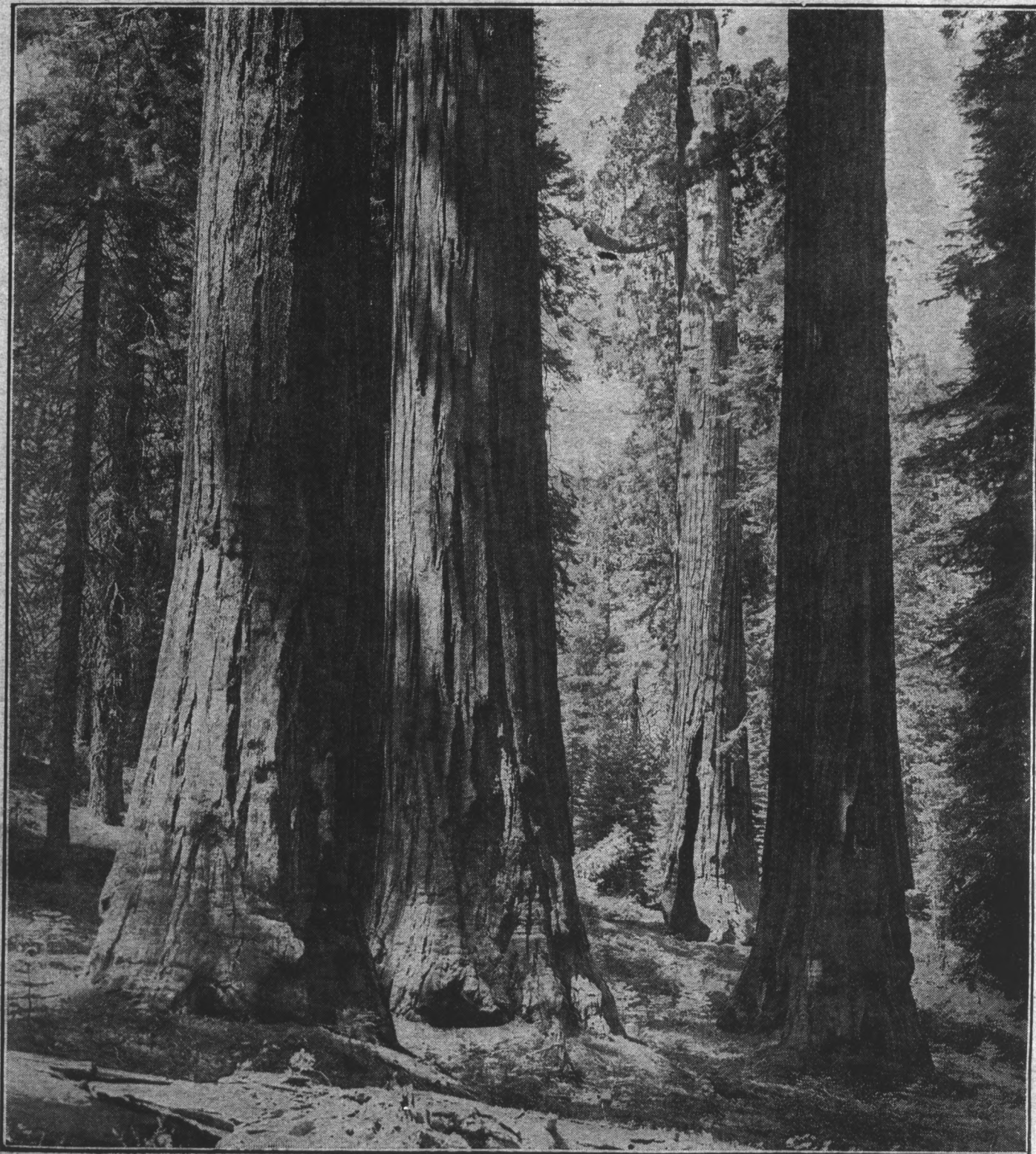
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*Some of God's Enduring Work*



# THE · NEWEST · AID TO FARMERS

A new-type farm electric plant that combines all the advantages of both automatic and battery charging systems.

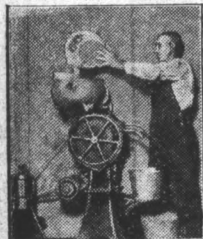


## DELCO-LIGHT

Read How Delco-Light Decreases Labor—Builds Up Profits. Jumps Egg Production up to 300% and More. Saves Pigs at Farrowing Time. Cuts Cost of Hired Help. Ends Fire Hazard.

See Nearest Delco-Light Dealer for Full Particulars. And Mail Coupon for Free Book

Here is a plant unlike all others. With this new-type plant you can use up to 7 or 8 electric lamps and draw the necessary current right from the battery. Thus the engine runs infrequently. Less fuel is used. But throw on a heavier load. Instantly and automatically the engine starts—generates current to carry the heavier load—plus a surplus supply to recharge the battery! Thus only a small battery is needed. And even this small battery lasts longer.



"Electric light for yards and farm buildings. Power for farm machinery and home electric appliances. All for only \$1.25 a month."

Robert McCue Mitchell, S.D.

This combination Delco-Light is almost human in its action. An automatic throttle speeds or slows the engine to meet load demands. An automatic choke makes starting quick and certain—even in zero

### Leaps to Success in 60 Days!

This new-type Delco-Light was introduced less than 60 days ago. Yet in this short time a whole nation has been won to it. Won to its new and revolutionary features. Won to its longer life and lower operating cost. And finally, won by its low first cost that puts it well within the reach of all who need it.

weather. Automatic Pilot Balls—found in no other farm electric plant—show at a glance the condition of your battery. Easy to tell about. But 15 years were devoted to scientific research before this scientific marvel was perfected. Even then General Motors withheld approval until 7 years of grueling field tests proved it worthy.

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Talk to any farmer who owns a Delco-Light. He'll tell you that it brings new comfort and convenience to the farm. That it means a better, happier home. That it gives more time for important work. But that's not all. Delco-Light pays actual cash returns that far exceed its cost.

Note the pictures on this page. Note the extracts from letters underneath the pictures. We have hundreds of letters like these on file. Also hundreds of photographs. All tell the same story. Wherever Delco-Light is used on the farm, the home is happier, work is easier, health is better. And, on top of all, the owner of that farm makes more money!

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See the new combination Delco-Light that has forged ahead to leadership in less than 60 days! Write or phone or call on the nearest Delco-Light Dealer and ask for facts and figures. And remember—if this new



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E. H. Sly, Platte, S.D.

plant doesn't fill your needs to the letter, there's a wide range of other Delco-Light models to choose from.

### FREE BOOKS MAIL COUPON

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Don't wait. Get the free Delco-Light Book and full information without delay. If you write promptly, we will include free, "The Miracle of More Eggs"—a valuable booklet on increasing egg production for large and small poultry raisers.

**DELCO-LIGHT COMPANY**  
Subsidiary of General Motors Corporation  
Dept. T-400 • Dayton, Ohio

DELCO-LIGHT COMPANY  
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Grand Rapids, Michigan.

The E. H. Walker Co.  
212 N. Erie St.,  
Toledo, Ohio.

### FERTILIZER FREIGHT RATES

PREVAILING freight rates on fertilizers from Indianapolis to destinations in central territory have been declared unreasonable by the Interstate Commerce Commission. A similar case brought by the Ohio Farm Bureau Federation has been reopened by the commission for further hearings. The commission decides that the complainant in the present case is entitled to relief without further delay, pending the outcome of the other case.

### TO FIGHT MEYER

THE farm bloc of the Senate is preparing to contest the confirmation of Eugene Meyer, who was appointed chairman of the Federal Farm Loan Board by President Coolidge several months ago. They say he is unfriendly to agriculture and the farmers do not want him.

### News of the Week

Ionel Bratiano, the premier of Rumania, died November 23, following an operation. This gives Prince Carol hope that he might get the throne, his arch enemy being out of the way.

Fourteen hundred prisoners tried to break jail at Folsom, Cal., resulting in seven dead and twenty-two injured.

Capt. Frederick Giles, who started to fly from San Francisco to Australia, was forced back by bad weather after flying five hundred miles. The Junkers plane which started from the Azores to fly to New Foundland also had to turn back.

The Women's Democratic club of Philadelphia started a movement to abolish the donkey as the national emblem of the Democratic party as "the unsightly donkey does not stand for the virtues of the organization."

Nearly ten are dead as the result of clashes in the strike ridden coal fields of Colorado. The strike was called by the I. W. W. five weeks ago.

Deer are so plentiful in Newaygo county, where they are protected, that they are bothering the farmers by eating their grain and running with their cattle.

The Standard Oil company has signed a contract to buy 360,000 tons of oil from Russia over a period of six years. This brings the Standard Oil Company's total annual purchases of Russian oil to 1,400,000 tons.

Some time in Devonian period of geological time the area occupied by Michigan and the Great Lakes was covered by a vast inland sea, according to experts of the Smithsonian institute who worked with Milwaukee Public museum in an investigation.

Thousands of unemployed invaded Trafalgar Square, London, in a protest rally. There were violent denunciations of Premier Baldwin, and red flags were flown.

Clarence Chamberlin, who flew from New York to Germany, has announced the formation of a company that makes 500 pound fool-proof airplanes, seating two and flying one hundred miles an hour.

Four of Belgium's cabinet resigned because of the failure of the ministry to reach an accord on the army and defense policy.

The association against the Prohibition Amendment is trying to get one of the political parties to come out for a plank for a national referendum on the prohibition question.

### Coming Events

Nov. 26-Dec. 3—International Live Stock Exposition, Chicago, Ill.  
Nov. 26-Dec. 3—International Hay and Grain Show, Chicago, Ill.  
Dec. 6-8—Michigan State Horticultural Society, Benton Harbor.  
Dec. 8—Michigan Master Farmers' Banquet, East Lansing, Mich.  
Jan. 3-Mar. 2—Short courses in Dairy Production, Horticulture, General Agriculture, Poultry, Agricultural Engineering, Home Economics, M. S. C., East Lansing, Mich.  
Feb. 6-11—Short courses for fruit growers, and market gardeners, M. S. C., East Lansing, Mich.  
Dec. 6-16—South-central Michigan Potato train, Jackson, Marshall, Allegan, Kalamazoo, Lawton, Niles, Cassopolis, Three Rivers, Coldwater, Hillsdale.

### THE POTATO TRAIN

THE Michigan State College in co-operation with the New York Central lines will conduct a potato train for ten days in ten counties to help spread the knowledge of standard grades, the needs of the markets and the value of good seed.

The schedule is as follows:

Jackson, Dec. 6th, 10 A. M.-6 P. M.  
Marshall, Dec. 7th, 10 A. M.-6 P. M.  
Allegan, Dec. 8th, 10 A. M.-6 P. M.  
Kalamazoo, Dec. 9th, 10 A. M.-6 P. M.  
Lawton, Dec. 10th, 10 A. M.-6 P. M.  
Niles, Dec. 12th, 10 A. M.-6 P. M.  
Cassopolis, Dec. 13th, 10 A. M.-6 P. M.  
Three Rivers, Dec. 14th, 9 A. M.-3.30 P. M.  
Coldwater, Dec. 15th, 10 A. M.-6 P. M.

Be sure to look for the white car on the day this train is in your vicinity. It will be near the depot.

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DEVOTED  
TO  
MICHIGAN  
VOLUME CLXIX

# MICHIGAN FARMER

AND LIVE STOCK JOURNAL  
PUBLISHED WEEKLY. ESTABLISHED 1843.

A Practical Journal for the Rural Family  
MICHIGAN SECTION THE CAPPER FARM PRESS

QUALITY  
RELIABILITY  
SERVICE  
NUMBER XXIII

## Huron Chooses Champion Farmer

*He Practices General Farming and Dairying*

A SCORE of the leading farmers were nominated in the Champion Farmer Contest conducted in Huron County last summer. Of these, Howard Nugent, of Bad Axe, was selected to the place of honor.

Mr. Nugent, who has always lived upon a farm, follows a program of general production and dairying. About 172 acres of his 240 acre farm are cultivated, forty-seven acres are in permanent pasture and twenty-one are covered with woodlot. The farm has been under cultivation for about a generation. Its soil is largely clay loam, there being altogether about 25 acres of sand.

Like other good farmers, Mr. Nugent gives particular attention to the improvement of his soil. That he may secure the fullest advantage from the manure produced upon the farm, it is kept under cover until taken to the field. This is done daily when weather conditions permit. Each year a considerable acreage of green manure crops is plowed down and commercial fertilizer is regularly applied to the wheat and oats ground at the rate of 200 pounds per acre. Tile drainage also increases the efficiency of field work and crop production.

Since the introduction of alfalfa, this farmer, like many others, finds his crop rotation a little confusing. However, the main order is clover, corn, oats, and wheat. His alfalfa fields, which are handled separately, stand from four to seven years before plowing.

The chief source of income from this farm is whole milk produced by a herd of twenty-nine cows. All but ten of these are pure-bred Holsteins. A sire of excellent breeding and great pre-potency heads the herd. Being a member of the Huron Cow Testing Association, Mr. Nugent compounds feed to give the maximum of

results. There is plenty of pasture for the summer and during the winter farm roughage, silage, legume hay, and home-grown grains are properly supplemented with concentrates and any needed minerals. The animals are housed in a stable fifty-four by seventy feet, which is well ventilated and provided with concrete floors. Work is facilitated in these stables by the use of manure carriers and a milking machine. Beside selling whole milk, dairy animals for breeding are sold largely to local buyers.

About twenty acres of wheat each year adds to the farm income. This crop follows oats. The customary methods of plowing, culti-packing, har-

By Burt Wermuth

each year. Clover is plowed down in the fall for this crop. About June 1 certified Robust seed is planted and the crop is cultivated five or six times with a two-row cultivator. Harvesting is done with the bean puller and side-delivery rake. The crop is often cleaned before marketing, and the cull beans are ground for feed, while the pods are used as roughage. His average yield of beans is nearly double that for the state.

Alfalfa is another crop of importance on this farm. "I grow Grimm alfalfa," says Mr. Nugent, "without applying lime. We, however, inoculate our seed and give special attention to the preparation of the seed

barley, and potatoes. Also several acres are devoted to apples, pears, bush fruits, and strawberries.

The picture on this page gives the reader a general impression of the home upon this farm. This semi-bungalow type has a full basement with both inside and outside entrances. The plans include a center hallway with the living room on one side and the dining room on the other. Back of the dining room is a modern kitchen and behind the living room is a down stairs sleeping room. Between the sleeping room and kitchen is a well-equipped wash room, and a lavatory. The back porch extends well across the rear of the home. There are five bed rooms on the second floor. Among the conveniences in the home are a furnace, both hard and soft running water, electricity, electric power washing machine, sewage system, septic tank, ironer, laundry tubs, and bathroom.

Mr. Nugent, his good wife and seven children find time for vacations and entertainment. We observed a piano, guitar and violin and were informed that two of the girls play instruments. The entire family when at home attends church regularly.

By reason of his interest in community affairs, Mr. Nugent has occupied several positions of confidence and responsibility. He has been supervisor, justice of the peace, and officer in the Huron Farmers' Mutual Insurance Society, local elevator exchange, and farm bureau organizations.

This Champion Farmer Contest was promoted by the Huron County Tribune, County Agent David Woodman, Mrs. Frank Kinch, the Huron County Fair Association, and Huron County Bankers organization using materials prepared by the Michigan Farmer.



The Nugent Home Is Attractive, Modern, and Convenient and Denotes a Contented Rural Life

rowing, and fertilizing fit the soil for seeding. Berkeley Rock certified seed is used. His five year average yield is above twenty bushels.

Another cash crop is beans, of which about fifteen acres are grown

bed for this splendid forage crop. We secured fully sixty tons from our twenty acres this past season. The entire crop is fed upon the farm."

A number of other fields crops is produced. These include oats, corn,

## Market Outlook For Potatoes

*Is More Encouraging For the Remainder of Marketing Season*

By Gilbert Gusler

POTATO prices for the rest of the crop year are likely to compare favorably with the average of recent years. No spectacular advance, such as occurred in 1925, is to be expected, but, as the season progresses, the discount under last year's prices is likely to become smaller than it has been thus far. Many growers are bullish as to price prospects and still hold title to a large share of their crop awaiting more profitable prices than the market has afforded thus far.

The potato crop of 1927 was slightly above the average for the past five years. Four hundred million bushels is the estimate of the United States Department of Agriculture on November 1. This yield compares with 356 million bushels harvested last season, when on a per capita basis the crop was among the smallest on record, and the average for the past five years of 394 million bushels.

The quality of the crop is about average. Preliminary reports from the principal late potato states indicate that 68 per cent of the crop

would grade U. S. No. 1 compared with 72 per cent last year and a five-year average of 67 per cent.

Practically all of the increase of 44 million bushels as compared with the 1926 yield was produced in the southern early states which are through shipping or in the states west of the Mississippi. Six major late shipping states east of the Mississippi river, raised 10 million bushels less than last year and 29 million bushels fewer than the average for the past five years. Seven leading late states west of the Mississippi turned out 29 million bushels more than last year and 20 million bushels more than the average.

In the states from which comes the bulk of the winter's market supply of potatoes, 274,911,000 bushels were raised compared with 251,788,000 last year and 298,879,000 bushels in 1924, the last big crop year. The yield in the sixteen deficiency late potato states is 25% larger than in 1926.

The 1927 crop allows each person 3.3 bushels which is only moderate. During the past twenty years, the crop has provided on the average of 3.6 bushels per person.

Potato prices are highly sensitive to changes in supply. The quantity consumed tends to remain relatively constant regardless of the cost. It is not easy to increase the demand when a large crop is raised or to curtail it when production is short. When the per capita production is near or below 3 bushels, high prices during the winter and spring usually prevail. A yield of around four bushels per capita has just as surely been followed by falling prices.

From 1916 to 1926, five crops gave a smaller per capita allowance than does the 1927 yield, the average for these years being 3 bushels. The Chicago wholesale price in December of these years averaged \$2.86 per 100 pounds. In the following March, it averaged \$3.61, an increase of 26 per

cent. Most of this advance was accounted for by the big jumps recorded on the 1916 and 1919 crops.

The potato market this fall started about 25 per cent lower than a year ago. Prices paid by jobbers in the Chicago carlot market for northern round whites, U. S. No. 1, averaged \$1.84 in September compared with \$2.45 in September, 1926. Prices worked lower during October when unusually warm weather curtailed consumption and at the same time accelerated the hauling of potatoes. The average price paid by jobbers in October was \$1.50 compared with \$2.49 last year.

Since the first of November, the market has shown more strength. Northern round whites, U. S. No. 1 are now quoted at \$1.50 to \$1.65 per 100 pounds, sacked, in the Chicago wholesale market. Dealers generally are inclined to expect prices to remain fairly steady until after the holidays. The normal seasonal tendency of the market in years of small or

(Continued on page 534)



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 home problems.

VOLUME CLXIX NUMBER TWENTY-THREE

DETROIT, DEC. 3, 1927

## CURRENT COMMENT

Senator  
Capper's  
Peace Plan

**A**NNOUNCEMENT has just been made by Senator Capper of Kansas that he will introduce a joint resolution in the Senate at this session of Congress, providing for the renunciation of war as an instrument of our national policy. The resolution will provide that international disputes between America and other like-minded nations will be settled by arbitration or by judicial decision any matters that cannot be settled by negotiations. About this matter Senator Capper says:

"I propose by this joint resolution to test the sincerity of our profession that America desires world peace. We have talked much about the desirability of peace, but have done little to advance the cause which the people have much at heart. Nothing further is to be gained by repeating pious platitudes, by uttering high-sounding moral generalities, or by professing to be devoted to international peace and opposed to war.

"More than 10 years after the United States was dragged by circumstances into the most dreadful conflict in human history, half the world is still suffering acutely from the effects of that futile struggle of armed forces. It left bankrupt every European nation that took part in it. It cost nearly 10,000,000 young lives. Is it not time that the United States, as the world's most powerful, secure, and pacific nation, should follow words with acts?

"The resolution I shall present is not a radical or extreme statement of American policy. It has the merit of putting into plain and explicit terms the desire of the American people to advance the cause of peace. What is proposed by the resolution is treaties with any like-minded nations to forego and renounce resort to war in difficulties arising in the relations of the contracting parties; to submit issues

to arbitration or to judicial decision that cannot be settled by negotiations."

No group of Americans will be stronger for this resolution than the millions of stalwart young men who, a decade ago, left their labors at home to do their part in the World War.

Calling Us  
Bad  
Names

**W**E have been called unprintable names by a certain type of irresponsible individuals because of our part in promoting the anti-trespass hunting law. Coming from such a source, we naturally feel complimented. Had it not been for the thoughtlessness and actually destructive attitude of this same class, there would have been little need for the enactment of this law. But the situation became so unbearable that protection to farm property and farm life had to be provided.

Apparently this law is supplying that protection to a large degree. Most farmers are taking a reasonable posi-

therefore, to get unity of action thousands have to be convinced. Nevertheless, the situation is not hopeless. Time will bring the recognition of common purposes and problems to the next-to-the-ground farmers as well as to farm leaders. This will create a desire for union and probably for larger farm units. Anything which will encourage unity of effort will help to establish agriculture on a sound economic basis.

Get the  
Best  
Advice

**N**OT long ago our medical adviser received a contribution from a reader who recommended a cure for night sweats. The reader advised placing a basin of fresh water directly under the bed where the patient sleeps, stating that it will stop the night sweats and will cost nothing to try.

This remedy has been practiced for years. The friend who sends it believes in it, and we appreciate the spirit of helpfulness behind her act. But if she knew one-tenth as much

formation as to the advantages of these improvements and of the small cost for which many of them can be provided.

It was with this thought in mind that the Michigan Approved Farm Home Contest was undertaken. It is hoped that by the use of score cards, plans, and suggestions, a better appreciation of the modern idea of a good farm home will be had by the rural people of Michigan. These advanced ideas should be incorporated when remodeling the old home or building a new one. It shall be the pleasure of the Michigan Farmer to co-operate with farm folks and with all agencies in extending the advantages of these improvements.

It is only by adding to the comfort and convenience of the rural home that we can hope to develop a more complete community life and to keep the younger generation interested in and satisfied with life upon the farm.

## Ignomoney

**I** JUST wish I was what you call educated so I could be a doctor, 'cause doctors never make failures. If their payshunts (I spelt it that way on purpose on account of the pay part of it) die it ain't a failure 'cause they get paid for their mistakes anyhow.

Now the difference between a doctor and a regular fellow is that the doctor gets paid for his mistakes while a regular fellow has to pay for his'n. But this don't only mean M. D.'s, V. S.'s, D. O.'s, D. C.'s, B. V. D.'s, and X. Y. Z.'s, and etc., but there's other "doctors" that get paid for the wrong guesses they make. And among them is garage men.



For inst. if anything happens to your old bus, something lots worse is goin' ta happen to your pocket book. For inst., my car had a cough it couldn't get rid of and they said it was imperfect internal combustion or something like that and it cost me \$23 for them to keep it a day and then it coughed just the same. I found a screw loose on the carburetor or what you call it and fixed it, so the bus is normal even after the garage man had it for a day. I won't say he did anything to it 'cause I don't know, but I know where I kin get storage for less than \$23 a day.

And then the other day I had to get a battery and after I had it a day I found it wasn't charged. I guess the fellow thought he charged me enough, so he didn't feel like chargin' the battery also. It puts pep into a battery to charge it, but it takes it out o' a fellow to charge him the way the garages do.

They say money is the medium of exchange, what ever that is. But I know it ain't the medium of fair exchange. If we farmers try our devilist to get clean potatoes and apples and nature gets ahead of us and puts a little scab on it, nobody is goin' ta pay for it, but if M. D.'s and garage men leave a monkey wrench inside of one of us or our auto engine we got to pay them for the privilege of doin' it and pay for gettin' it out. Merchants and us farmers is gotta "satisfy the customer," but the other fellows is got fer their slogan "charge the customer." It seems in them "professions" ignorance is profitable.

So, I wish again I was a doctor or garage man 'cause I never got paid for what I didn't know and not very much for what I know. But I would like to get somewhere where I could get paid for my ignorance, 'cause I know I'd make a heap o' money—ignomoney, I call it.

HY SYCKLE

Master Farmer Banquet December 8  
Program Will be Broadcast Over WKAR

**T**HE second annual Master Farmer banquet, in honor of the 1927 class of Michigan Master Farmers, occurs at the Union Building, Michigan State College, East Lansing, on the evening of December 8. The new class has been selected by the judges consisting of Hon. Herbert E. Powell, Commissioner of Agriculture, Hon. A. M. Brown of Schoolcraft, Joseph F. Cox, Professor of Farm Crops, Michigan State College, and O. B. Price, Agricultural Agent of the Michigan Central Railway.

The program, including an address by President Kenyon L. Butterfield of Michigan State College and the presentation of the medals to these newly selected Master Farmers, will be broadcast over WKAR. At present the wave length of this station is 285.5 meters. However, it is possible that on or after December first a change in wave length may be made in compliance with federal regulations. This change will be announced over WKAR as soon as details are known.

The program starts at eight o'clock, eastern standard time. Just before this, from 7:15 to 8 o'clock, one of the regular College extension courses will be broadcasted. While farmer readers should form the habit of tuning in on WKAR for the fine college extension courses, we specially urge them to turn the dial at 8 P. M., December 8, to the Master Farmer program.

tion with regards to hunters who ask permission to hunt upon their farms. The adoption of this "live and let live" policy will protect the farmers, increase the supplies of game and will give thoughtful hunters abundant opportunity to enjoy their sport.

Need  
of Or-  
ganization

**T**HE speech of L. J. Taber, Master of the National Grange, contained some meaty thoughts on organization. He said that only twenty per cent of the farmers of this country were members of any boni fide farm organizations, but that the solution of farm problems would be more certain when at least fifty per cent of the farmers were organized. He did not hope for equality for agriculture through legislation alone, but with unity among farmers, the farm organizations would have membership enough to correct social and educational conditions, finances, and numbers sufficient to adjust economic problems, and strength enough to get needed legislation.

The secret of success among commercial organizations is that they have definite heads. There is a control which brings a unity of action from the president down to the janitor. Commerce could not exist in its present highly developed state if it were as disorganized as farming is.

Of course, farming and industry are not exactly parallel, because in industry only a few determine a policy. But in farming, each farmer has full say of his own piece of land, and

about night sweats as most doctors do she would not believe in her remedy for a single moment. Night sweats often indicate the presence of such diseases as tuberculosis, rheumatic fevers, or poisonous infections. The patient who followed her advice might be fooling away precious time and cutting off the chance to secure worth while help.

In dealing with our own bodies, we often try all the remedies of the neighborhood before securing the help of those who know. Neighborhood remedies may cost nothing and again they may cost everything.

The  
Home  
Approved

**T**HAT the home is the greatest of all institutions is not to be doubted. It was Beauchamp who described it as the best security for civilization. He further stated "upon properly appointed and becoming dwellings depends more than anything else, the improvement of mankind."

According to a recent survey of Michigan homes made by one of our national magazines, there is much yet that can be done in the way of improvement. Only 20.5 per cent of these homes have water piped into the house; 15.1 per cent have stationary sinks; 17.4 per cent use improved lights; 12.7 per cent have power washers; and 30 per cent have refrigeration.

Many farm homes have not been improved because of the impression that improvements are very expensive. There is a lack of definite in-



## Barley Gains Favor

*Good in Rotation and For Feeding*

AS one drives through Michigan counties, he is impressed with the growing favor for the production of barley. This change of sentiment has, no doubt, resulted in part from the fight against the European corn borer. But there is a sound background behind this change from corn to the small grain. Not only is there less work in the production of an equal volume of feed nutrients in barley, but it is found to be the equal of corn, particularly in the feeding of dairy cows.

Taking the yields of corn and barley in the United States there is less difference than the average person would think in the acre production. For a ten year period the yield of barley for the country was twenty-five bushels per acre and for corn twenty-seven bushels. That is, the average acre of land will produce about 1,200 pounds of barley and about 1,500 pounds of corn.

But the farmer is leaning more to the barley because he gives to this crop only about half the man and horse labor that he gives to his corn crop. Here he finds a big saving. Many Michigan farmers find too that barley lends itself to certain rotations better than corn. This is particularly true in bean and potato sections.

Another reason for many using this crop is that it makes one of the best nurse crops for starting legumes. The plant is relatively short and does not shade the ground too much, while it is harvested earlier than oats thus giving the legume plants a longer season without the competition of the nurse crop in which they establish themselves.

Then as a feed, barley has a right to the attention of live stock men. The experiences of careful feeders, show that from this grain the finest results are obtained. In Denmark the good dairymen mix this grain with oats as the foundation grain ration for their dairy cows. While in this country many experiments show its value as a feed.

Tests made at our own Michigan experiment station have a special interest to our readers. In a general way these tests corroborated the work done at Wisconsin, Kansas, and other stations.

In one of these tests corn and barley were compared as a feed for dairy cows. Then cows were divided into two lots, having practically the same milking capacity. All the cows in both groups were fed at the rate of one pound of hay and three of silage for each hundred pounds of weight. Grain was fed to the cows with a low milk test at the rate of one pound to three and one-half pounds of milk produced, while to those yielding rich milk the allotment of grain was one pound for each three pounds of milk. Good alfalfa hay and

a high grade of corn silage were fed throughout the tests.

The corn ration was made of 400 pounds of ground corn, 300 pounds of oats, 200 pounds of bran, and 100 pounds of old-process oil meal. The barley ration was the same except that an equal weight of barley was substituted for the corn. For the first thirty days of the trial, the corn ration was fed to lot one and the barley ration to lot two. For the second period of thirty days, the rations were changed and during the third period they were again changed back the same as for the first period. Between each period ten days was allowed to elapse so the animals could become readjusted to the change in feed.

Averaging the first and third periods when lot one was on the corn ration and comparing this with the period on the barley ration shows results only slightly in favor of the corn ration. The five cows produced 73 pounds more milk and 2.3 pounds more butter-fat when fed on corn ration. But lot two under the same conditions produced thirty-two pounds more milk and 5.8 pounds more butter-fat on the barley ration than they did on the corn. Thus it would appear from these tests which are corroborated by other tests that barley is quite equal to corn as a portion of the grain ration for dairy cows.

In the feeding of calves, however, the Michigan station did not find barley quite the equal of corn, pound for pound. According to the trial made, they found barley worth \$1.40 per hundred pounds when the market price of shelled corn is \$1.50 per hundred pounds.

It was found from tests in Wisconsin that crushed barley was worth about ten per cent more than crushed oats, pound per pound in the feeding of horses at hard work. Other trials with horses seem to indicate that unless the barley is crushed or ground they have less value as a feed for horses. This is due to the hardness of the barley grains.

In the feeding of lambs barley is used extensively in some sections of the country. However, considering all the available data it may well be concluded that barley is worth somewhat less than corn for fattening lambs. The test would seem to indicate that gains were made as rapidly on a barley ration as on a corn ration, but the former grain failed to give the finish secured when feeding corn.

From these considerations together with the tendency toward farming with less labor and the spread of the European corn borer, it would appear that the gradual development of the practice among central Michigan farmers, in particular, of increasing the acreage of barley in their farming program is well founded.

## The Greenville Potato Show

*Goes Across in a Big Way*

THE Greenville Potato Show with its 249 entries, many educational exhibits of machinery work of other organizations, and its potato parade, said to be the first one of its kind to be staged in the world—did justice to the industry which brought more than ten million dollars into Montcalm county last year.

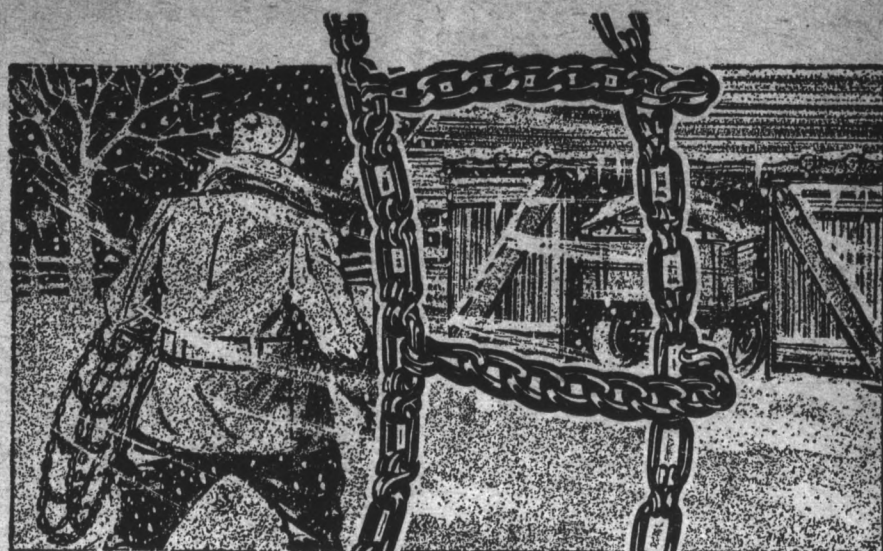
The official figures covering carlot shipments from Michigan points last year shows that out of a total of 16,400 carloads originating in the state, 3,874 of them were loaded at Montcalm County points. This indicates that this county produced 23.6 per cent of the total crop of the state which was estimated as worth 36 mil-

lion dollars which would give the return to Montcalm County growers of more than ten million dollars.

The potato parade consisting of 49 floats, lead by the band, was a gorgeous spectacle which depicted the growth of the potato industry in this section from its earliest days as well as the ways in which various commercial organizations are doing their share to help in this progress. Friday was climaxed by the potato banquet at which Governor Fred W. Green spoke of potatoes and other things.

The dopesters were completely upset when the judging was completed and it was learned that the sweep-

(Continued on page 539)



**1 Catch the Hook**

**2 Draw up the Slack**

**3 Lock the Lever with the Link**

**Easy to Put On!  
Easy to Take Off!**

# Cold?

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The fastener can't clog with mud or ice—it works under all conditions. Ask for Dreadnaughts, with the Blue Boy Fastener (painted blue).

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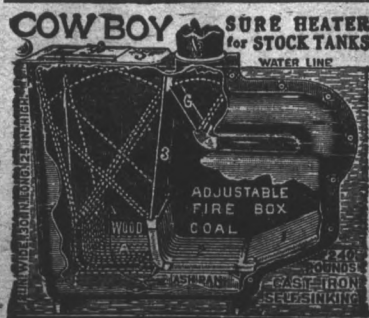
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Illinois State Experiments show that 85% of Cows kept in Close Warm Barns tested Tubercular. Prevent this by keeping water tank in open barnyard equipped with a Self-Sinking

**COW BOY TANK HEATER Saves Money Every Week**

Turn cows out of barn to drink in Fresh Air and Warm Water. "Better drink from a Large Tank than from a Small Bowl." Burns coal, cobs or wood. Outlasts all others. Durable, practical, reliable. Quickest to heat; strongest draft; ashes removed with no check to fire; adjustable grates; keeps fire 24 hours. **ABSOLUTELY SAFE.** Warm water helps digestion; saves grain.

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.

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The smartness in fit and style of WIGWAM silk and silk-and-wool hose pleases well-dressed men.

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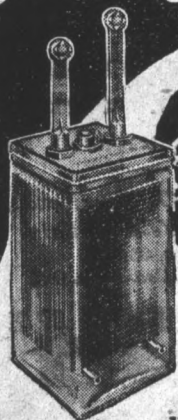
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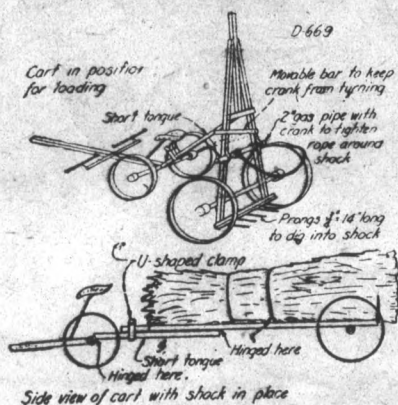
**UNIVERSAL  
BATTERIES**



### SHOCK HANDLING DEVICE

I AM sending you description and diagram of a shock handling device more convenient than those usually built for this purpose.

My device uses two carts with a hinged reach between front and rear carts. Almost any size of wheels available may be used, although the rear wheels should be at least as high as the front ones. In loading, the device is backed up against the shock, the hinged reach broken upward until it stands vertically. The rope is then put around the shock and drawn up



tight with the two-inch pipe roll with crank attached. The row of 14-inch tines pressed in to the shock near the base effectually prevents slipping.

Hauling one shock at a time may seem rather slow, but two of us have hauled 42 shocks from 30 to 50 rods in a day.—P. Miller.

### SHOULD WATER IN HEATING PLANT BE CHANGED?

In order to obtain best results in heat units from a hot water heating system, should the water be changed at regular intervals? I have a system wherein the water has not been changed in 20 years. Which is the best method?—P. K.

If hard water is used, it would be best to let part of the water out occasionally at the lowest point, since some of the solids will be precipitated by heating, and these solids should be drained out before they have been baked on to the heating surfaces or caked in the bottom of the system.

Soft water should be used if possible and if this is done there is not much advantage in changing except occasionally to let out any rust or other sludge.—I. W. D.

### MATERIAL FOR CELLAR INSULATION

We would like to know what to use for a false roof in our new cellar in order to keep the cold out in winter and heat in summer. Should we use straw or sawdust? Would either cause spontaneous combustion? Please advise as to amount of straw or sawdust to be used.—F. A. W.

The material used for insulation would not be exposed to the weather, but would be above the cellar with an attic above the installation. Dry sawdust 12 inches deep would probably be quite satisfactory. The straw should be packed down somewhat but should be three to four feet deep after being packed down. Neither of these materials would be likely to cause spontaneous combustion.—F. E. Fogle.

### SELLS VALUABLE LOAD

A. L. DAVIS and Son of Merritt, claim the distinction of selling the most valuable single load of farm produce ever delivered to a shipping point in Missaukee County. This load consisted of 104 bushels of alsike clover seed, worth \$12.50 a bushel. The best yield so far reported is 56 bushels of alsike seed from 8 acres on Jay T. Hoard farm near Merritt.

## THE HANDY MAN'S CORNER

In harvesting this crop it is handled like hay, and the clover chaff after threshing has a fair feeding value.—H. B.

When you plant flowers around the home, you plant seeds of beauty in the souls of the dwellers within that home.

## Horticulture

### COAL ASHES ON GARDEN

Are soft coal ashes detrimental in any way to garden soil? My garden is very fertile but the soil is much too hard so that potato roots will not do well. The sole purpose of the ashes would be to loosen up the soil, using ashes in place of sand. Please advise.—Wm. B.

Soft coal ashes will have no detrimental effect on garden soil. You undoubtedly understand that these ashes contain practically no plant food and are used simply to loosen the soil. I suggest that the ashes be spaded into the soil in the fall or early spring.—C. E. Millar.

### CLEARING CIDER

Would like to know if there is any way to clear up cider. I have made some for several years, but it is never clear.—A. L. G.

There are two very good methods of clearing cider or vinegar. The first method is to use gelatine. Soak up 1 to 1½ ounces of gelatine in sufficient water to make a good solution. This amount of gelatine is enough for 100 gallons of cider. Add the gelatine solution to the cider slowly, thoroughly stirring the cider during the process. Allow the gelatine to settle out and rack off the cider taking care not to disturb the material at the bottom. If the cider is not clear enough to suit you the first time repeat the process.

The second method is by using isinglass. Add the isinglass at the rate of ½ to ¾ ounces per 100 gallons of cider. The isinglass is prepared as follows: cut it up in fine pieces and soak twenty-four hours in a little water containing acetic or tartaric acid equal in weight to the isinglass used. When it is thoroughly soft, rub it through a fine sieve several times gradually adding more water each time through until a perfectly fluid liquid is obtained. Mix this fluid with a little cider and then thoroughly stir into the cider. Allow to settle and rack off as above.

The technical term for the process of clearing is known as "fining" and is used by all wine makers for making good clear wine. It is the same principle as putting an egg in coffee to clear it.—F. W. Fabian.

### MARKET OUTLOOK FOR POTATOES

(Continued from page 531)

moderate crops, as already noted, and the fact that the increase in yield over last year, make some improvement in prices after that time appear logical.

Many farmers stored their potatoes when prices failed to improve during October and are inclined to wait now to see how the market improves. Carlot shipments from the surplus late shipping states to November 15 totalled 78,343 cars compared with 79,573 a year ago. The other late states have contributed 14,150 cars compared with 11,734 last year, so that shipments of the late crop so far this season are about the same as last year. This indicates that supplies still to be marketed are greater than a year ago.



**Like Lightning**

Watch the udder and teats—the "small" but tremendously important element in milk-giving. For the hurts and troubles that constantly arise, nothing affords such immediate, such thorough results as Bag Balm.

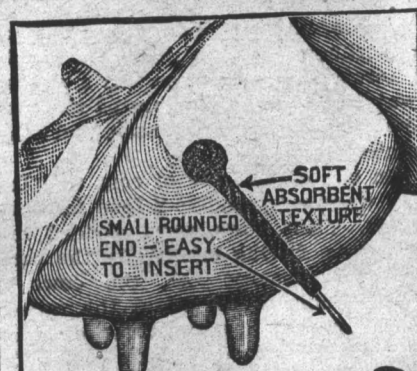
This wonderful ointment, so clean and pleasant to use, starts healing at once. Healthy, normal tissues are restored in no time. For Caked Bag, Bunches, Inflammation, Chaps, Cracked Teats, Injuries, Cuts or Bruises of all sorts, Bag Balm brings quick relief. The regular use of Bag Balm makes easy milking and a full pail the rule. It cannot taint the milk.

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Dr. Naylor Medicated Teat Dilators reach the seat of the trouble—give positive results. Always keep a package on hand for treatment of Spider, Obstructions, Cut or Bruised Teats, Hard Milkers. Sterilized and packed in medicated ointment. Their absorbent texture carries the medication into the teat canal.

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Medicated  
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DILATORS**





## Readers' Opinions

### COUNTRY DOCTORS

THE editorial in the November 12th issue entitled "Country Doctors Needed" refers to a subject that I think is of vital importance to the rural districts. Too much so to be passed by with mere comment. There should be medical institutions in each state where tuition would be free to farmer boys who would sign up to practice for a certain number of years, say five or ten years in rural America.—A Subscriber.

### CROSS-COMB BEES

I AM in the same fix as D. C. is in the 12th issue of the Farmer, in regard to cross-comb bees. It doesn't seem right to kill them when the woods and buildings are full of them. I caught three swarms last summer and there were six swarms went over I didn't get. What are they going to do about inspecting these? If they were diseased I say kill them.—F. G.

### SKUNK AND CORN BORER

HAVE been reading Mr. Breningstall's comment on "What Good Are Skunks Or Minks" in Our Readers' Corner, November 5, 1927, issue of The Michigan Farmer. According to my personal observation this fall in a neighbor cornfield I have seen where the skunks have broken into cornstalks infested with corn borers and completely cleaned them up. I believe if the skunks were protected for five years the corn borer would be eradicated.—An M. F. Friend.

### CROSS COMB

WHY is it that the bee inspector kills bees and destroys the honey just because the comb is crossed, and they say that the bees were not diseased? They did that very thing in our neighborhood. One hundred and fifty dollars worth of bees, that one man owned, was destroyed. Why couldn't they be made to pay for the bees and honey, the same as the TB cattle that the state pays for?—S. H. S.

### GAME PROTECTION

IN answer to Mr. Hugh Breningstall's piece in the Michigan Farmer, I would say, he struck the nail on the head. There is a whole lot of game the law protects that does more harm than the crow does. But, of course, there is a lot of laws that there is no justice in. A skunk will kill your chickens if he get to them but peasants are of no use on earth but to eat. Let a skunk get in my chicken coop and see how quick he gets a bullet or a crack on the head. Now a deer has to have horns four inches long or longer, nothing under four inches. It is a hard matter to discern the length of the horns at a distance in the woods. If you shoot one under that length you dare not take it out of the woods.

D. H. Morris and Chas. Crow have said a whole lot of truth too. A lot of our law makers do a lot of talking, but that is as far as it goes. But if some big fellow, some millionaire, wants a law, and sends some of them a few thousand in a letter and says "Do the best you can," see how quick they move in his favor. The poor farmer has but little recourse.

Mr. Crow is right in the way of making articles that you need. I do a lot of that work myself. I file saws and grind them, do my own horse shoeing and blacksmith work, repair my own wagon, fill a wheel, make the spokes and put the tires on, and make an axle. Any such work I do myself. That's economy, do everything you can and save expense.—S. H. L.

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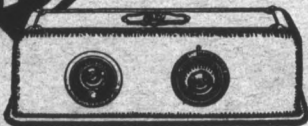
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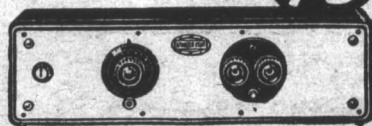
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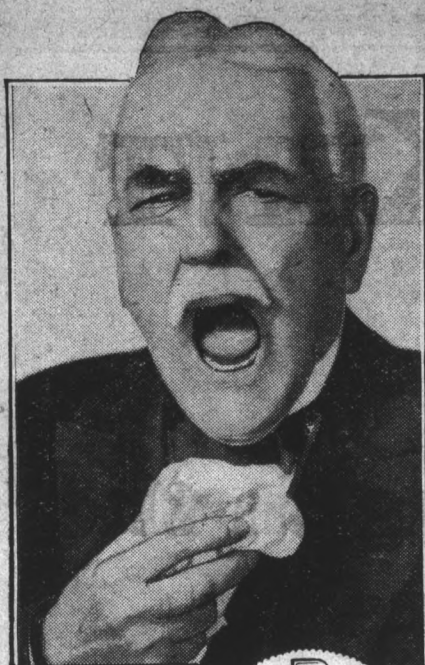
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## News and Views

From INGLESIDE FARM—By Stanley Powell

CORN husking has demanded a large share of our attention and energy during the past few days. The job on our own farm didn't take very long as most of our corn was converted into silage, but we had several neighbors to help. Of course we would all agree that corn husking might better have been done weeks ago when the weather was less uncertain, but in a busy farm community we have to take things as they come. Husking outfits seemed to be few and hard to secure in this locality.

As our fodder was none too dry when it was run through the husker and shredder, I tried a new stunt to keep it from spoiling. One man spent all his time moving around the shredded fodder and mixing in dry oat straw to absorb the excess moisture. This is an experiment for us, but I don't see why it shouldn't work out satisfactorily.

### Threshing Rings Increasing

I sometimes wonder what developments the future will bring forth along the lines of threshing, silo filling, corn husking and similar farm operation. It seems to me that the present tendency is away from the professional threshing outfit and toward the "ring" or community-owned equipment.

Now that dependable tractor power is to be found on a large proportion of Michigan farms, we are becoming less and less dependent upon the steam engines and heavy tractors of the old-fashioned threshers. Today farmers are probably less patient than they used to be. They want things when they want them and they don't want to wait. By owning their own outfit in a small co-operative community company, they can control its route and avoid any long delays.

Five neighbors and ourselves went together about three years ago and purchased a small grain separator. We use it primarily for our own grain, but also do some work for our neighbors who are not members. The same rate is charged members and non-members, but in threshing from the shock, members have the preference in the arrangement of the schedule of stops.

### How the Ring Is Governed

The six members meet each year and elect a general manager and a secretary. The secretary does little except to keep the minutes of these annual meetings. The general manager has full charge of the separator throughout the threshing season. He lines up the route, keeps account of all grain threshed and attends to the collections.

This particular outfit cost approximately \$1,000. The members paid no cash at the time of the purchase, but instead all signed a note for the full amount. Each year the interest has been paid and \$100 on the principal. Some years it has been necessary for the members to spread a small assessment in order to do this. Of course as the face amount of the note is reduced, the annual interest charges will diminish. At this rate the separator will be paid for in ten years and then the members can decide what they wish to do with the profits. They can declare a dividend or do their own work free.

We always figure that the proceeds of the thresh bill should be divided equally between the ring and the owner of the tractor that furnishes the power for the job. Of course, the ring pays its general manager a wage to tend to the separator and whoever owns the tractor supplies an operator. During the past season the Ingleside

tractor furnished the power for most of the jobs around the circuit.

If such an arrangement works satisfactorily with threshing grain, the time may come when we will buy additional equipment and do our bean threshing, clover hulling, silo filling and corn husking on the same basis.

I have a very intelligent neighbor who can show you convincing figures to prove that it doesn't pay to husk corn and shred the stalks. He believes in feeding the corn right out of the shock to his stock. Another good neighbor hogs down part of his corn and picks and husks the ears from the rest of the standing corn and lets the cattle run in the stalks. Ionia County is not yet in the corn borer quarantined area. When we are, a good many of our agricultural practices will have to be modified.

### No Horses Allowed

In our home town of Ionia in a place where horses were formerly tied by the half dozen, we recently noticed this sign, "No Horses Allowed." That seems to be typical of the town attitude toward the farm horse. If a person goes to town with his team he is at a loss to know what to do with them. The streets are lined with autos on both sides so that he can't drive near a store.

Then if he wants to find a hitching place, he is up against it. Livery barns are being converted into auto storage garages and places to leave a horse for a few hours are scarcer than hens' teeth.

The gentle art of horseshoeing bids fair soon to become an almost unknown accomplishment. We used to take our horses to a very busy shop in a nearby village. Often the shop would be full and horses would be tied to the posts outside, awaiting their turn. Many a time I have waited hours to have my team shod. But as the years passed autos and trucks took over the road work and business dwindled at that old smithy. Now it is closed and deserted.

Even a city as large as Ionia has but two horseshoeing establishments now, and one of them has been closed quite a proportion of the time lately.

The reason for this situation is not difficult to find. Farm horses are not only diminishing in number, but what are left are going barefoot today to a larger extent than ever before. For instance, time was when we had nearly twice as many horses at Ingleside as we have now and practically all of them were shod all around. Gradually we reduced the number of horses and let some horses go without shoes until only our best team was kept shod. Now we've sunk still lower. The last time they were at the blacksmith shop I had the leather-aproned gent shoe them in front and let them go barefoot behind. Of course, if it gets icy this winter, we'll have them shod all around again.

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## Service Department

## TO KEEP ICE

I am keeping my ice under the barn bank grade in a place once intended for a root cellar. I have kept my ice there for two years but it melts very fast. The walls are all four sides concrete and there is a cement cover on top, it being air tight with a dirt floor. Can this place be made to keep ice or will I have to build an ice house?—H. J. M.

To prevent ice from melting requires that a mass of ice be surrounded by some kind of insulating material. This may be built into the wall of the building or some temporary material as sawdust placed between the building wall and the ice. Concrete is not a good insulating material. If you use approximately a foot of sawdust around the ice and a foot or more over the top, you should be able to keep ice in the root cellar.

There are two other requisites and these are that the space above the ice should be ventilated and that you have drainage beneath.—F. E. Fogle.

## TAXABILITY OF BEES

Can the Board of Review assess honey bees as personal property in Michigan or in Chippewa county? Are they taxable?—T. J. D.

We find nothing in the statute exempting bees from taxation. Compiled Laws 1915 Section 4,002, provides, for the purposes of taxation personal property shall include: "(3) All goods, chattles and effects within this state." "(13) All other personal property not herein enumerated and not especially exempted by law." Section 4,003 relates to exemptions, providing that the following personal property shall be exempt from taxation, enumerating 12 items only one of which could possibly cover this property—" (12) Personal property owned and used by any householder in connection with his business to the value of \$200.00."—Rood.

## EMPLOYER'S LIABILITY

I have a new corn husker the gears of which are all covered. The rollers are covered too except where the corn goes in. Is there a law requesting me to carry insurance on the man that helps me run the husker? If he gets hurt could he sue me for damages? If I took out an insurance, could I get it for a short time, or would I have to take it for a year?—H. F. M.

The farmer is liable only for his negligence in case of injury from the use of the machine in husking corn on his own growth upon his own farm. But when the machine is used to husk corn for others for pay, either by exchanging work or otherwise, unless he has complied with the Employers' Liability Act, he would in substance be liable as an insurer. This question was squarely passed upon by our Supreme Court in Roush vs. Heffebower, 225 Mich. 664. The length of the insurance is a matter of contract with the insurance company and no doubt could be arranged.—Rood.

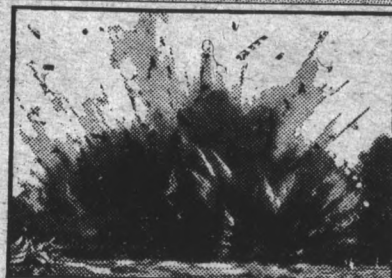
## HANDLING OF MANURE

For the past ten years I have been top dressing my meadows through the winter, spreading the manure each day as the stables were cleaned. I did this so as to save myself a lot of hard work in the spring, but now I do not believe I am getting the results that I should. Last winter, I put 85 spreader loads on 9 acres of alfalfa. The adjoining field of 9 acres, also containing alfalfa, was not top dressed and had just as good a first cutting. Also, the second cutting was a little better than the second cutting of the first field. Should I pile my manure this winter or haul out as usual. There are many good farmers who believe that manure hauled out in December, January, and February on frozen ground and snow is half lost. Has there been any experiments made to determine exactly which way

the least amount of loss is made?—H.

Unless a farmer has a suitable manure pit in which to store the manure during the winter, or is feeding his stock under an enclosed shed where the manure may accumulate and be thoroughly tramped down, it is better to draw out the manure daily and apply it to the fields. If the land is quite rolling, considerable loss will result when the snows melt or during heavy spring rains. Upon comparatively level land, however, the loss of plant food from manure applied in the winter is much less than from manure in exposed piles.

There is some question as to the advisability of putting manure on alfalfa. In general, I believe, a greater return will be obtained from applying manure on land which is to be put to cultivated crops. On soil which is deficient in plant food, however, very large increases in yields are very often obtained by top dressing the alfalfa with manure.—C. E. Millar.



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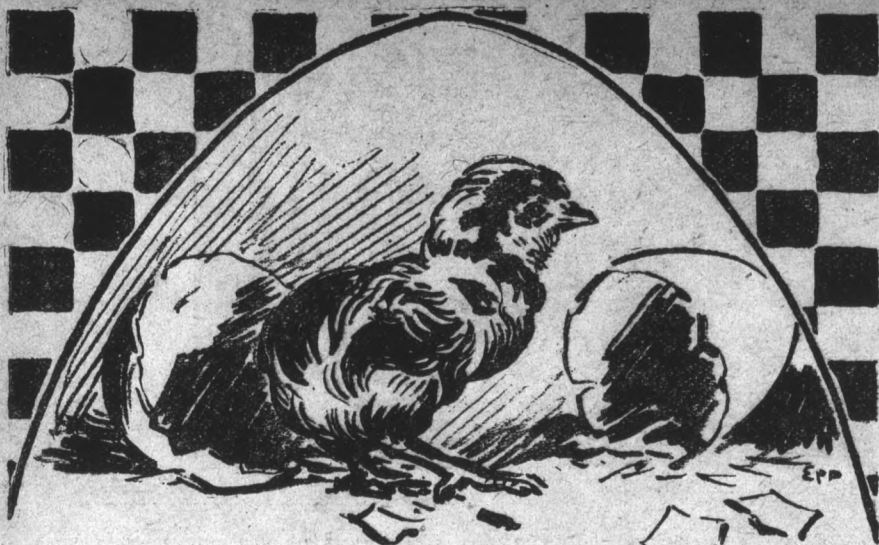
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# POULTRY

## WHEN IS AN EGG AN EGG?

DURING the five years of the Michigan Contest we have been confronted with the eternal question of "When is an egg an egg officially?"

We started out by considering anything with a sound shell which was marketable an egg, and gave it credit for such. We found that too many of the high records which were being established were being made by hens which insisted on producing small eggs. While the number of eggs which a hen is capable of producing in a year or in her lifetime is doubtless the most important factor in determining the profit which she will net the owner, the size of the egg is now becoming an important factor in egg marketing.

Last year the Michigan Contest adopted a ruling which had been agreed upon by the managers of the official contest. This ruling considered an egg which failed to weigh 18 ounces to the dozen from November first to January thirtieth, or 20 ounces to the dozen from January thirtieth to the end of the contest as unofficial, and in the Michigan Contest these eggs were not credited to hens or pens. The result of this record will reveal some interesting figures.

Out of 197,796 eggs that were produced in the Michigan Contest last year, 3,781 of these were too small to receive credit. This is a small average per hen, being only 3.7 eggs. In studying the contest summary, we find that out of the 100 pens which were entered, one pen produced 349 small eggs and 1,794 were large enough to count. Two other pens produced over 200 small eggs; while seven more had between 100 and 200 eggs of this type at the end of the year. Only three pens of the 100 were successful in getting by without any under weight eggs; while ten had only one under weight egg each to their credit. The average of under weight eggs for the 100 pens was 37.8.

There was no question that this system was doing a great deal to penalize pens which were producing small eggs, but it was giving no additional credit to breeders who had been successful in keeping up the egg size of their flocks.

The new contest is, therefore, adopting a new system of determining the value of eggs according to their weight. This system is not original with the manager of the Michigan Contest, but is designed after the Canadian system where it has been successfully employed for some time.

In 1927-1928 a 24 ounce egg in the Michigan Contest will receive one point, 1-10 of a point will be added for each ounce per dozen over 24 up to 27. Eggs weighing 27 ounces per dozen or more will not receive any additional credit, but will be given a value of 1.3 points. For each ounce per dozen under 24, 1-10 of a point will be deducted, so a 23-ounce egg will receive credit for 9-10 of a point, a 19-ounce egg for 5-10 of a point, a 15-ounce egg for 1-10 of a point, while a 14-ounce egg will receive no credit at all.

The following scale gives the point value of eggs by weight:

14 oz.—0.0 pts.	21 oz.—.7 pts.
15 oz.—.1 pts.	22 oz.—.8 pts.
16 oz.—.2 pts.	23 oz.—.9 pts.
17 oz.—.3 pts.	24 oz.—1.0 pts.
18 oz.—.4 pts.	25 oz.—1.1 pts.
19 oz.—.5 pts.	26 oz.—1.2 pts.
20 oz.—.6 pts.	27 oz. up—1.3 pts.

The 18 and 20 ounce limit which was used last year is not being discarded, and in reports of the Michigan Contest this year each pen will be credited with the total number of eggs produced which will include the

small eggs. Beside this figure will appear the number of under weight eggs which will mean those falling under the 18 and 20 ounce ruling; and in addition to these two columns will be a column showing the number of points to which the pen is entitled. A pen producing 2,000 eggs which average to weigh 24 ounces to the dozen will have a credit of 2,000 points.

The awards in the Michigan Contest this year will be made on the number of points which the hen or pen receives and not on the total number of eggs produced.—C. M. Ferguson, Mgr., Michigan Egg Laying Contest.

## CHICKENS PREFER PUDDLES

DRAINAGE around poultry buildings is essential because observation after a rain storm certainly leads a poultryman to believe that chickens prefer puddles to the finest well water in clean receptacles. The soil around the poultry houses becomes more or less contaminated with droppings and after rain storms there may be many depressions filled with water which is practically liquid manure.

Of course it is not possible to control the source of the water supply when the hens are on range. But if the water fountains are always kept well filled the flock will not become unusually thirsty and drink heavily from the puddles. This will help to reduce the danger of infection with disease if the range is contaminated. And the more drainage the range receives the better the chances of rain storms disappearing in a short time which gives the hens only a short period in which they can drink dirty water.

Feeding snow to hens probably causes no trouble although they can eat the dry mash better when they have water to wash it down. But the farm flock which has access to snow may eat snow contaminated with droppings and that increases the danger of spreading disease through the flock.—R.

## BLIND DUCKS

WHEN ducks have access to a lake, pond or river there are no cases of sore festering eyes which later may develop into blindness. The birds dip their heads deep into the water and the eyes are cleansed of any dirt or sticky feed that has adhered to them.

Ducks without a natural supply of water should be given their drinking water in deep dishes or crocks so that they can rinse out their eyes whenever they drink. This also tends to rinse the nostrils and prevents the clogging with feed which is serious if the bird catches cold about the same time.

Ducklings sometimes have colds which cause a sticky discharge from the eyes. The mucous can be absorbed with small wads of tissue paper and the eyes washed with witch hazel or boric acid solution. Deep drinking dishes will help the bird to take care of its eyes and nostrils and probably prevent the necessity of treatment.—K.

## APOPLEXY

My Rock hens are dying. They seem to be in good health and drop over all at once. They are in good flesh.—R. B. W.

When heavy hens in previous good health die suddenly it is apt to be (Continued on page 551)



## THE GREENVILLE POTATO SHOW

(Continued from page 533)

stakes of the show had gone to Gordon Doneth of Copenish (Manistee County) on a 32 potato exhibit of Russet Rurals. Later this lad was presented to the guests at the potato banquet which added even more of the spectacular to the occasion. In competition with those who have spent years selecting potato exhibits, this 11 year old lad, in the sixth grade in school, had been placed as the winner in the show. H. C. Moore was the judge. Gordon Doneth, there-



Gordon Doneth, Eleven Years, Won the Sweepstakes at Greenville Show

fore, received the Loving Cup Trophy, the purple ribbon, the blue ribbon, and \$18.00 in cash.

The Rotary Club of Greenville had hung up a trophy to be given to the grower who grew the largest number of bushels on five acres. This went to E. W. Lincoln, Montcalm County's premier potato grower who has been improving both his soil and his seed stock for several years back, two factors that generally bat strong in a year like the past when moisture exercised such a cutting influence. In accepting the trophy, Lincoln recognized that potato growing is a family enterprise in these words, "On behalf of my family and myself, I accept this trophy." His yield was 1,520 bushels on the five acres and on the best acre of the five, he secured a yield of 337 bushels per acre.

A few details of his cultural methods follow: The field was a two year old sod, originally planted to alfalfa, timothy, and June grass. Generally, Lincoln merely cuts the hay down the second year and leaves it to replenish the soil with organic matter, but last year, he took off the hay. In the forepart of November, he put on 8 loads per acre of stockyard manure. The sod was plowed about the middle of May, thoroughly packed and worked, then planted from the 9th to the 16th of June. Before planting, 400 pounds per acre of an 0-12-12 fertilizer was broadcasted with a grain drill and at planting time, a 400 to 500 pound application of 3-8-6 fertilizer was made. The soil was dragged three times before the potatoes came up and cultivated twice with a two horse cultivator and once with a single horse cultivator.

A valuable educational feature of the show was the lectures on various subjects related to the potato industry. Speaking at the Potato show, H. C. Moore, potato specialist from Michigan State College, showed that the last seven years in Michigan have seen great strides, particularly, the increased yields due to planting better seed stocks as judged by certification. "Seven years ago the yield of the certified potato fields in Michigan was 128 bushels per acre which was 20 bushels per acre more than the yield of the entire state. In 1926, the fields of certified potatoes yielded 256 bushels per acre while the state average was but 120 bushels per acre. Now

certified seed is yielding double the yield of the average fields."

Another point which was of considerable interest to potato growers was Moore's report on the control of potato diseases and pests by dusting. As the result of field trials, Moore showed that the sprayed potatoes outyielded the dusted potatoes by 15 bushels but that the dusted potatoes outyielded the check plot by 50 bushels per acre. Counts of leaf hoppers on the various plots showed 7, 9, and 48 respectively per unit on the sprayed, dusted, and untreated pieces and a month later the counts were 8, 10, and 98. The untreated plot was nearly dead while both the sprayed and dusted plots were nice and green. He stated that the dust was more expensive than the spray but he believes that the dust fills a need where the field is far removed from the owner's home, where water is hard to get or where the land is too rough for a sprayer.

## ANOTHER NEGLECTED CROP

A MAN, a resident of a village who is a painter by trade, trapped \$83.00 worth of muskrats last spring on one farmer's land. A creek extended through the back pasture for

about a half mile. The rats on this man's farm were sold separate and brought the above amount.

Why should the farmer allow outsiders to harvest the fur crop on his land? The farmer has the best right to the fur bearing animals on his own farm. If he would take care of this matter it would make quite an item in many instances.

If muskrats were encouraged by feeding at certain times and if the water was raised in the creek in dry years by building low dams at intervals, their number could be increased materially and this crop be made worthwhile.—L. C.

While zeal for getting rid of junk is unquestionably commendable, we have noticed several cases lately where folks threw their refuse material in very inappropriate places. Recently I have seen quite a number of instances where sacks of old cans, broken glass, etc., were thrown into the shallow gutter along a level stretch of an improved highway. This stuff is not only unpleasant to look at, but will be in the way when the roadside is mowed.

The Golden Rule would be a good one to follow in such matters. It is the best guide down the road to personal and general happiness.—S. P.

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# American Farmers' Interest in Africa

*Growing Market of Dark Continent Needs Larger U. S. Fleet to Develop*

By Francis Flood

THERE'S your Africa, boys—the Dark Continent in its truest colors. If you turn around right now and hotfoot back to the States you can carry the full message of the West Coast with you," said Captain Phillips as we left the bridge deck of the "West Humhaw" to take refuge in the dining saloon from the malaria-bearing mosquitos that had already come aboard.

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And what are we doing about it? During the last five years the United States has built only fourteen ships of 2,000 tons or over while Great Britain built six hundred. This would not be so out of proportion were it not that the United States, with only one-fifteenth of the world's population, produces half the world's coal, iron, copper and timber, and almost two-thirds of the world's petroleum and steel, and nearly nine-tenths of the world's automobiles. It is difficult to compete with a foreign country in selling these products in colonies of that foreign country, when we depend upon that country for transportation also.

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Activities of Al Acres—Every Car Should be Equipped With One





## Built for Hardest Winter

Here's an arctic that's built for workers.

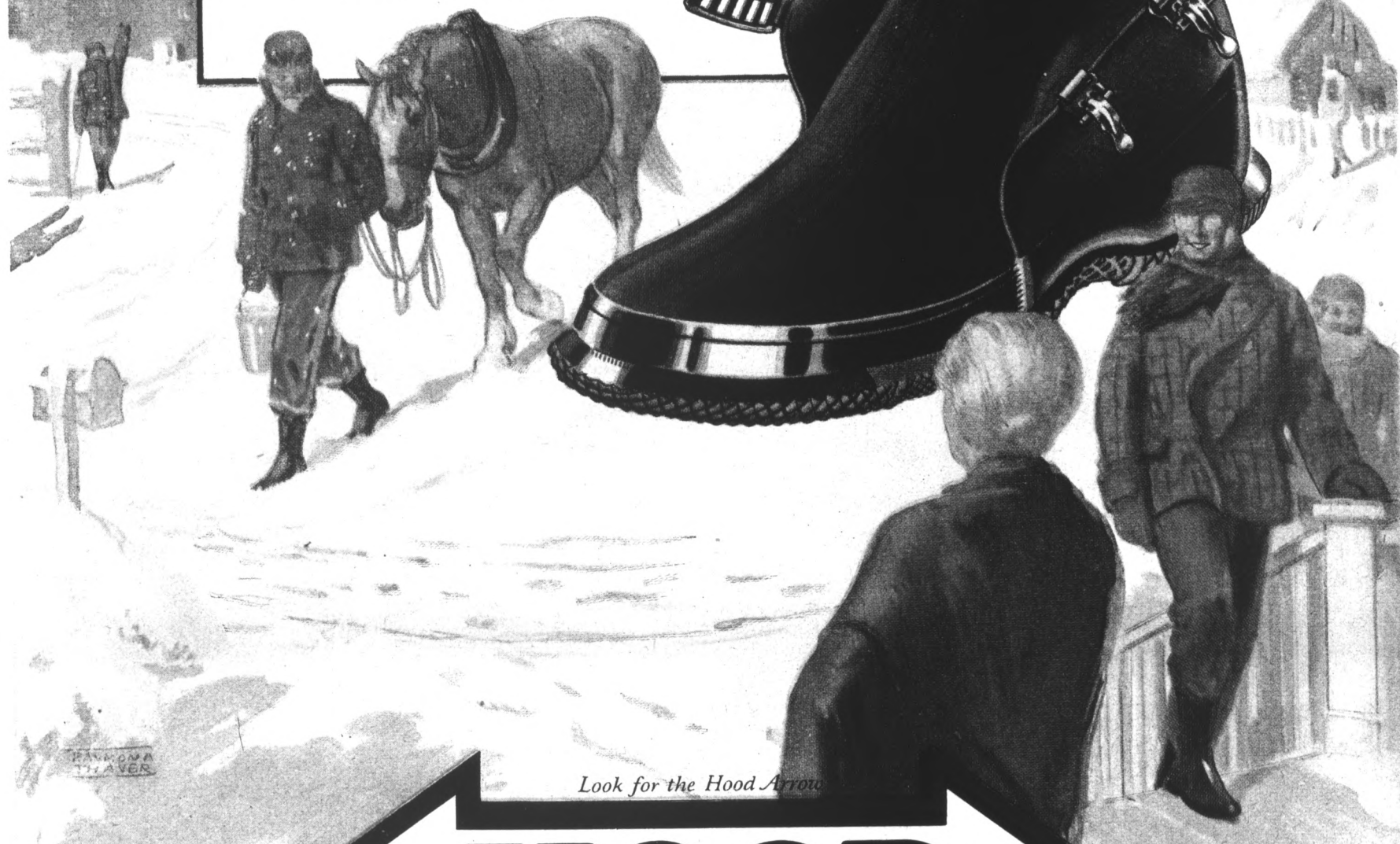
Uppers of heavy, tough cashmerette—to give double wear.

Lined with thick, warm fleece for northern weather.

Tough soles with an extra red rubber reinforcement where the hardest wear comes. Bumper-edged for rough going on frozen ruts. Try and wear 'em out!

The Hood name across the sole shows the maker's pride in these arctics. Ask for them by name—Hood Red Treads. Other styles for all the family offer the same plus value. Look for the Hood Arrow—and save money.

Made by: Hood Rubber Co., Watertown, Mass.  
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# HOOD



RUBBER FOOTWEAR

CANVAS SHOES

PNEUMATIC TIRES

SOLID TIRES

HEELS - SOLES - TILING



THE SYMBOL OF WORLD WIDE SERVICE IN QUALITY RUBBER PRODUCTS



# American Farmers' Interest in Africa

*Growing Market of Dark Continent Needs Larger U. S. Fleet to Develop*

By Francis Flood

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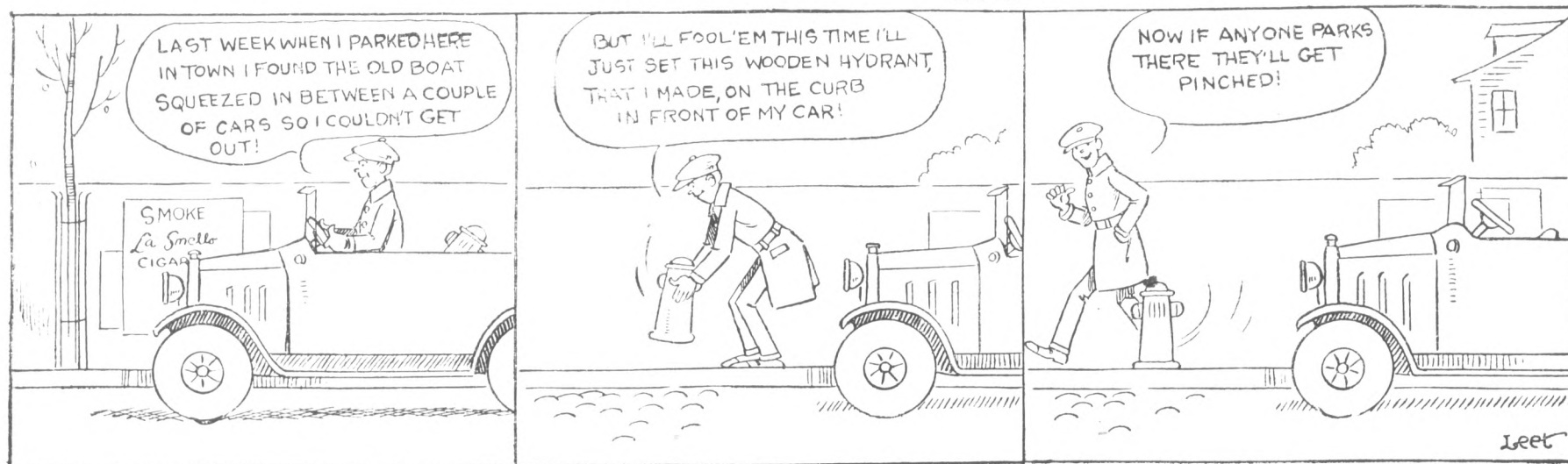
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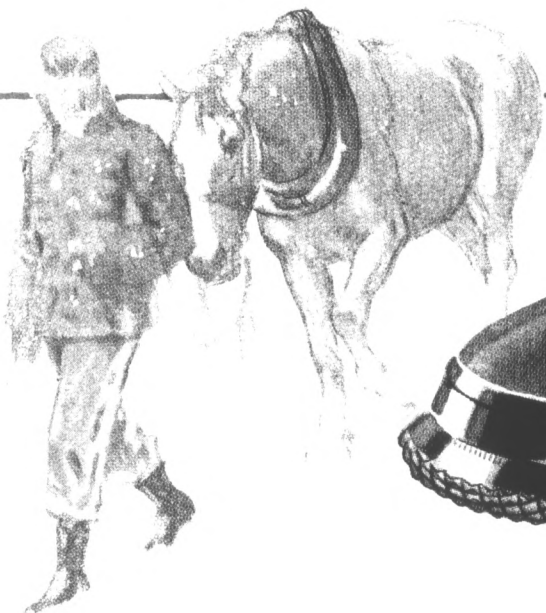
Uppers of heavy, tough cashmerette—to give double wear.

Lined with thick, warm fleece for northern weather.

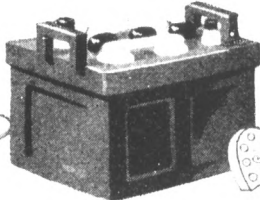
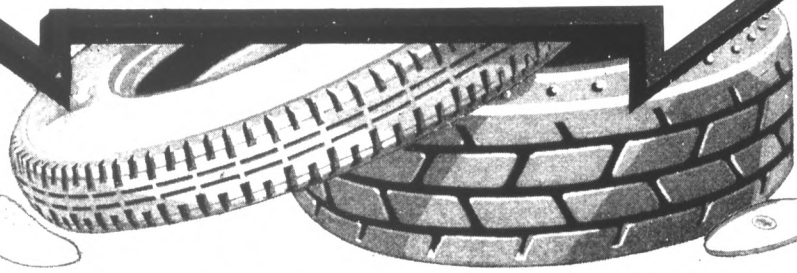
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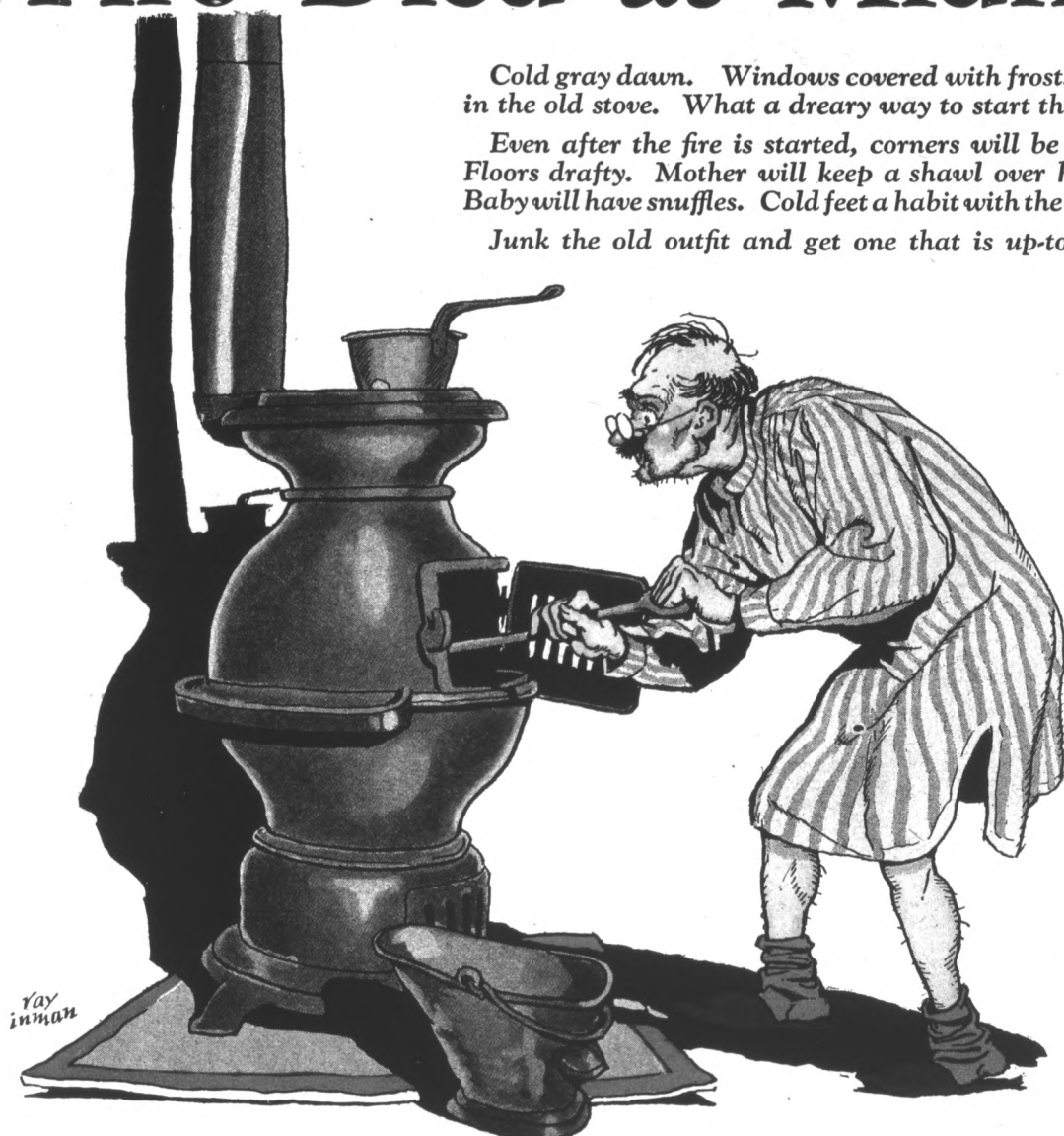


# The Fire Died at Midnight!

*Cold gray dawn. Windows covered with frost. Dead ashes in the old stove. What a dreary way to start the day!*

*Even after the fire is started, corners will be cold all day. Floors drafty. Mother will keep a shawl over her shoulders. Baby will have snuffles. Cold feet a habit with the whole family.*

*Junk the old outfit and get one that is up-to-date.*



**Y**OUR family is entitled to modern heat in the house. There's no need to freeze at night and shiver in poorly distributed heat all day. A modern outfit will fill the house with mellow warmth, will glow with comfort all night, utilizing all possible value from the fuel instead of sending it roaring up the chimney.

When you buy a new outfit you want results and economy. Turn to a manufacturer who has worked out designs from years of study and experiment. Trust an institution where every man is proud of the company's reputation, from executive in the office to molder carrying splashing crucible of white-hot metal. Such are the advertisers in this paper. They make good equipment and their guarantee counts.

Steady warmth that circulates, leaving no cold corners, will keep the family vigorous and full of hustle, without the dragging handicap of colds. All this, yet economy that keeps your pocketbook cheerful.

Firepots carefully cast, with metal compounded so they will not warp, crack or burn out, doors accurately machined so they fit, solid character and sound design in every part. That's what you want to buy.

*You Can Depend on the Heating Systems  
Advertised in This Paper*





# It pays to own a genuine Radiola

**W**HEN you buy a Radiola (and an RCA Loudspeaker) you know that you are getting the best in radio.

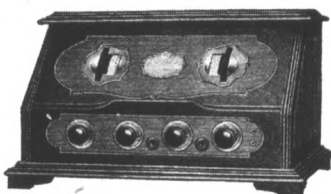
Back of every instrument bearing the RCA trademark are the resources, not only of the pioneer and leader in radio research—the Radio Corporation of America—but also the pioneers and leaders of the whole electrical industry—the General Electric and Westinghouse companies

Three radio instruments designed by the engineers of these companies are specially adapted to give perfect radio reception and reproduction in communities



**RADIOLA 16**—Storage battery receiver of great compactness. For selectivity, sensitivity and tone quality, it sets a new standard for receivers in its price class. The cabinet is finished in mahogany.

Less accessories . . . . . \$69.50  
With Radiotrons . . . . . \$82.75



**RADIOLA 20**—Dry-battery-operated receiver, with amazing sensitivity and many times as selective as the average antenna set. Ideal for distant reception. Can readily be adapted to socket operation. Ideal to use with the new RCA Loudspeaker 100-A.

Less accessories . . . . . \$78.00  
With Radiotrons . . . . . \$89.50

away from the congested centers of population.

These are the new, compact, storage-battery operated Radiola 16, the popular dry-battery operated Radiola 20, and the new RCA Loudspeaker 100-A.

Either of these fine receiving sets, when used with the wonderful new loudspeaker, will faithfully reproduce the programs from the great broadcasting stations—the best music, university extension courses, crop and weather bulletins, and the news of the world. And either of these sets can be adapted for operation from the electric light circuit by the addition of socket power devices.

Buy with confidence



where you see this sign.

RADIO CORPORATION  
OF AMERICA

## RCA Radiola

MADE BY THE MAKERS OF THE RADIOTRON

NEW YORK • CHICAGO  
SAN FRANCISCO





# I call this living!

A PIPE and P. A.—what a wonderful combination for pleasure! I often read about "what ten books" a man would choose for companionship if he had to spend the rest of his days on a desert island. I'd want books, of course. But the thing I'd insist on would be a warehouse full of Prince Albert!

I would never be lonely anywhere with my pipe and plenty of P. A. In fact, I'd be lonely in a crowded city

*without* them. You'll begin to understand "why" when you get that first fragrant whiff of Prince Albert as you tamp it into your pipe. You'll know for sure when you light up.

Cool as a referee. Sweet as a decision for *your* side. Mild as cambric tea. So mild that you can smoke pipe-load after pipe-load without a stung tongue or a parched throat. Yet P. A. has that rich, full tobacco-body that satisfies to the limit in every pull. A grand old smoke, Men.

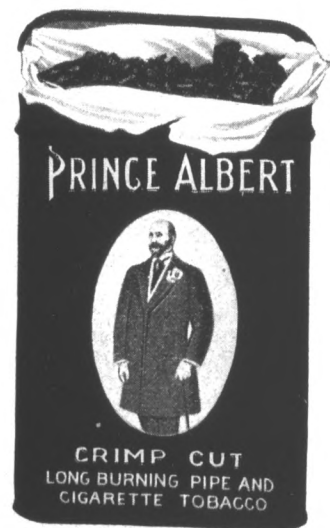
I don't know what your present

smoke-program is and I'm not going to ask questions. But I'm going to state in no uncertain terms that you don't know how good your pipe *can* taste until you load it to the brim with long-burning P. A. Millions of other contented jimmy-pipers will tell you the same thing. Why don't you find out for yourself?

P. A. is sold everywhere in tidy red tins, pound and half-pound tin humidors, and pound crystal-glass humidors with sponge-moistener top. And always with every bit of bite and parch removed by the Prince Albert process.

# PRINCE ALBERT

—the national joy smoke!





# A Great Man on Right Living

Our Weekly Sermon—By N. A. McCune

It is invigorating to listen to a great man, as he gives advice on how to live. The universities of Europe—some of them, at least—have a custom of inviting some eminent literary man, or scientist, or explorer, or statesman to give an address to the students on any subject he chooses. A different man is selected each year. Thus Sir James M. Barrie addressed the students of the University of Glasgow a few years ago, on "Courage." It is a tiny book, but mighty in its contents, and one that breathes quality it talks about. I have Carlyle's address to the students of Edinburgh University, many years ago, and that is a spacious half hour that one chooses in which to read it. So, this week, we have a great soul, one of the really big men of antiquity talking to us on the ever-present question



of how to live in righteousness and with justice to God and man.

He begins with the now famous parable of the vineyard. A man planted a vineyard, and took good care of it, expecting to get grapes from it, but reaped only wild grapes. Read it, in this week's lesson. Its very phraseology is beauty and power. And what does our farmer do, who has gotten nothing from his vineyard but small, sour, mouth-puckering wild grapes? "I will tell you what I will do to my vineyard. I will take away the hedge, and it shall be eaten up; and I will break down the wall, and it shall be trodden down; and I will lay it waste; it shall not be pruned or hoed; I will also command the clouds that they rain no more rain up it."

And now see with what smashing emphasis he turns on his greedy, unscrupulous fellow countrymen. "You!" he cries, "are this vineyard. God has looked for justice from you, but you bring forth oppression; and He has expected righteousness, but behold, the weeping of the poor and the down trodden!"

What are the specific sins of which he accuses his fellow countrymen? First, of being land-grabbers. By methods known to the rich and strong, they get hold of the land of the poor farmers, squeezing them out of their rightful ownership, and thus, they add field to field, farm to farm, until large estates are created out of the injustice and fraud. We noticed some weeks ago how dear the land was to the Hebrew farmer, in the story of Naboth. (I Kings, chapter 21). The land was sacred to him. "Thou shalt not remove thy neighbor's land mark, which they of old time have set," says the old Hebrew law. See also Numbers 27:1-11. But there were legal ways of getting around the law, if you had money enough. And so the ordinary farmer was robbed, and great estates were created.

Great estates are not necessarily a blessing, even if the land is acquired by honest purchase. In Doctor Warren H. Wilson's valuable book, "The Evolution of the Country Community," he tells of one huge farm in a western state, of twenty-eight thousand acres. Very little thought is given to the human side of operating this vast acreage. The work is rushed at top speed by casual labor, seven days in the week, and the men are then turned off. In another state farther east, there is a farm of five thousand acres, whose owner lives in a distant city. The manager has orders to oppose all improvements, such as churches and schools, "because there

is no money for us in church or school."

Our prophet declares that the punishment for this will certainly be barrenness of the soil. Do you not suspect that he is right? Men who have no more idea of working with God than these ancient landlords had, and no more than some modern landlords have, would care little for the fertility of the soil. They would crop it hard, and sell out, while the selling was good. One way of showing the hardness of one's heart is the way one treats the soil. One way of showing the reality of one's religion is the way in which he builds up the soil, and the community where he lives.

Second, Isaiah says that these landlords are getting deeper and deeper into trouble in the way they use liquor. Besides the usual malignant results, there will be spiritual blindness. Finally becoming weaker, they will go into captivity for want of knowledge. He pictures Sheol, the abode of the dead, as an insatiable, devouring monster, which opens its jaws and swallows them down. One social sin leads to another, and together they lead to death.

Third, the scepticism, atheism, which hardens itself in wrong doing, and ends in death of the soul. And this means, fourth, that these men lose their sense of right and wrong, finally. They are unable to make a distinction between what is right, and what isn't. This is a state into which many modern folk get, apparently. The old distinctions they used to have are gone. They will argue that it is all right to break this law and that, in the name of the so-called new freedom. People who would not have dreamed of drinking in an old-time saloon will use bootleg liquor and argue themselves into thinking that it is right and smart to do it. They certainly are not as keen of conscience as they once were, and when conscience loses its edge, it is time to stop.

Sin kills itself, in time. But it also kills its victim, and innocent people at the same time. For that reason we should use all measures at our command to warn, to persuade, to turn men into other paths.

## SUNDAY SCHOOL LESSON FOR DECEMBER 4th

SUBJECT—Isaiah Teaches Right Living. Isa. 5:1-12.  
GOLDEN TEXT—James 1:27.

### BY THE WAY

First Man: "I see you had another row with your wife."

Second Man: "No, it was the same old story. She was right and I didn't agree with her quick enough."

Daddy: "What do you think of your new mamma, Elsie?"

Elsie: "Well, if you took her for new, I fink, you got cheated."

Mr. Jones: "I have an electrical wife."

Mr. Smith: "What do you mean?"

Mr. Jones: "Everything she has on is charged."

There were two men waiting for a train at a station—an Englishman and an Irishman. The Irishman spoke first: "Let's ask questions, and you have to answer your own question. Then you ask a question and if I can't answer it you have to. If you can't answer your own question, you pay for the tickets."

The Englishman agreed. "You see those prairie dog holes over there? How do they dig them?" asked the Irishman.

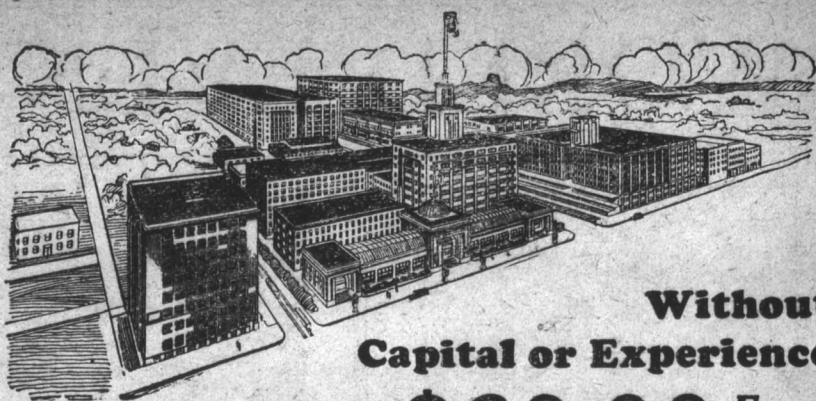
That's your question, answer it yourself."

"Well, they start at the bottom and dig up."

"But how do they get to the bottom?"

"That's your question answer it yourself."

The Englishman bought the tickets.



Without  
Capital or Experience

You Can Make **\$60.00** Every Week

With This Mighty Company Behind You!

Openings For 10 Men in Michigan

The J. R. Watkins Company (plants pictured above) needs ten reliable men to handle increased business in this State. Supply such daily necessities as Baking Powder, Cocoa, Coffee, Extracts, Spices, Soaps, Home and Farm Remedies, etc., to long-established users. It's easy to make big steady earnings as a distributor for this 10 Million Dollar Company with a 60-year reputation for giving customers the most of the best for the least.

Our Field Supervisors Go With You—Start You Show You How To Run Most Profitable Business

No experience necessary! Our trained Field Supervisors instruct you right in your own home and go out on your routes with you; show you how to get big, quick, easy orders and operate your business for biggest profits.

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Thorough personal training. That's why Watkins Dealers make big money, have cars, own homes, bank accounts. It will pay you to find out.

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I would like to know how to make big money in the Watkins Business.

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THE J. R. WATKINS COMPANY  
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## Common Sense Principles

—form the basis of National Loan & Investment Company's complete thrift service.

More than 38 years of intimate contact with the savings and investment problems of Michigan people gives us a thorough knowledge of how to serve them as they like to be served.

Broad facilities, positive safety and great resources make this an ideal place to save and invest at

**5% and 6%**

Resources Over \$12,500,000

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**The National Loan & Investment Company**

1148 Griswold St., Detroit, Mich.

Detroit's Oldest and Largest Savings and Loan Association  
Under State Supervision

SEND FOR  
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# WORLD EVENTS IN PICTURES



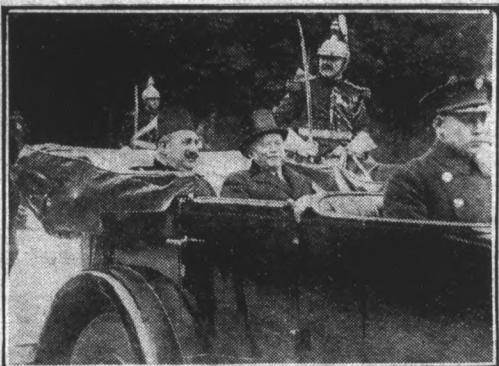
Work is progressing on the Confederate States' Monument on Stone Mountain, Georgia.



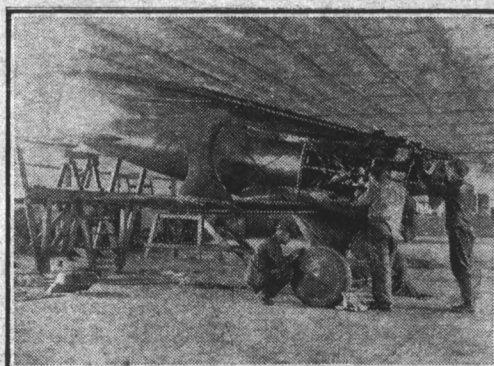
Ruth Elder and co-pilot, George Haldeman, were enthusiastically greeted in New York on their return from their recently attempt transatlantic flight.



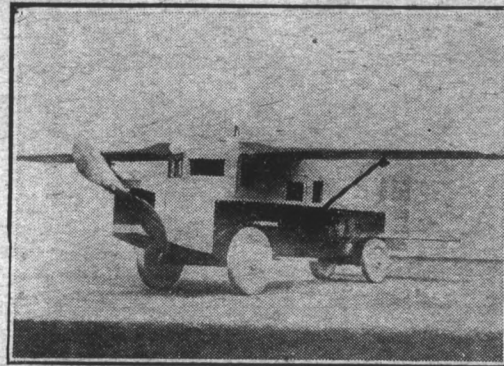
Frank Heath rode this horse 11,387 miles touring every state in the Union.



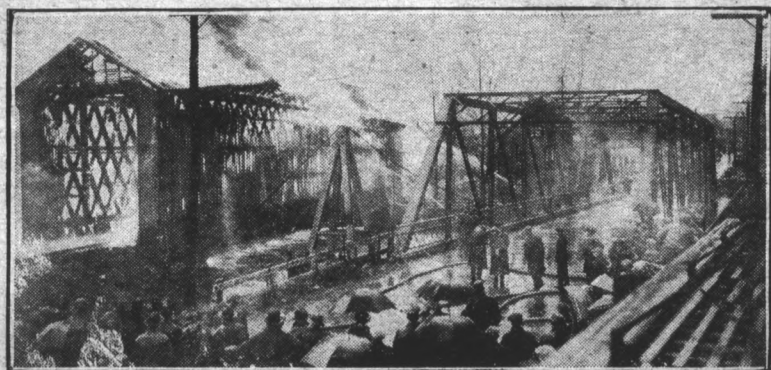
During the visit of King Fuad to Paris, President Doumergue escorted the king on a sight-seeing trip.



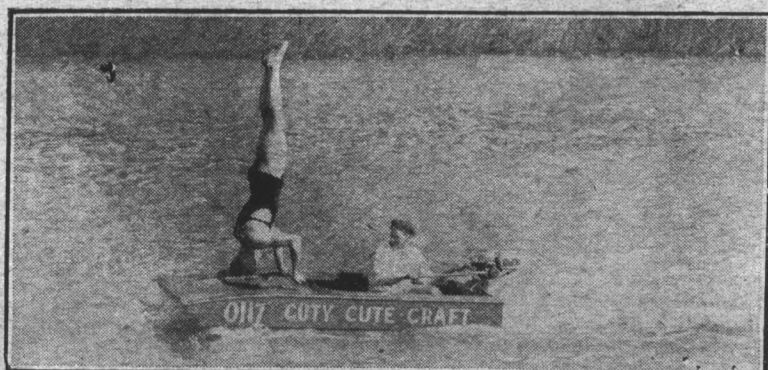
In this plane Lieutenant William of U. S. N. traveled 322.6 miles an hour, establishing a world record.



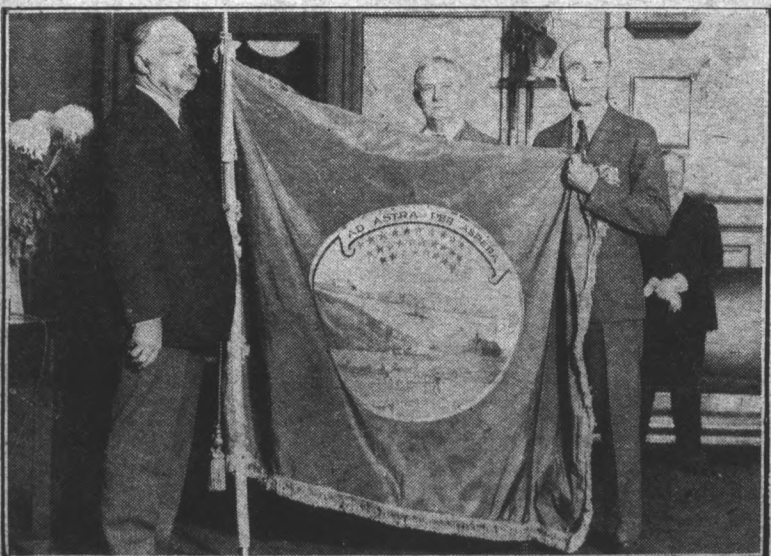
A German has designed this combination bus and airplane. The wings fold back for land travel.



Because the flood had so weakened the Maine Central Railroad bridge, it was burned in order to save the highway bridge that was close by from destruction.



"Use your head, man, use your head" was the advice given to S. B. Waring when he tried this stunt in the outboard motor races on the Wilmington river.



Kansas recently presented to Postmaster General New this state flag to hang beside flags of other states and the largest American flag in the world in the Postoffice Department.



Not more than mildly interested in discovering whether her babies looked like her, "Freda" turned her baby ostriches over to Gladys Newmeyer for adoption.



## RURAL HEALTH

By Dr. C. H. Lerrigo

### BUY CHRISTMAS SEALS!

**Y**OU will be asked to buy Christmas Seals very soon; so I want to remind you of a few reasons why. Tuberculosis can be vanquished and is already diminishing by reason of the systematic campaign put on by the Tuberculosis Societies. It is one of the most costly diseases. It can be demonstrated that it costs the United States thirty billion dollars a year. Of course, the cost of lives is figured in that big total, but figuring only on the expense of caring for the people sick with it the cost each year is \$449,000,000.00. So it is safe to say that one of the reasons for buying Christmas Seals is to save money loss.

However, I do not rest my advice to buy Christmas Seals on the money basis alone. I urge you to buy them so that you may make a personal and definite contribution to the work of making us a healthy nation. Christmas Seal money does a lot of health work everywhere in this country. Christmas Seals are truly health seals, since whatever helps to prevent tuberculosis helps to make for health. With the money raised by the sale of seals there have been provided hundreds of sanatoriums where those ill with the disease may receive care; preventoria where children who have been exposed to the disease may be built up to resist its attack; tuberculosis nurses to care for patients who are ill in their own homes, clinics where examination and advice are freely given; and to thousands of people has been given the optimistic message that tuberculosis is a curable disease.

There are over 600 permanent tuberculosis clinics at present in the United States, besides a very large number of traveling or itinerant clinics.

The first open-air school in the United States was opened in 1908. Today there are over 1,000 such schools and many hundreds of special fresh-air classes for anemic, malnourished and also for normal children. Special open-air schools should be provided for all sub-standard children.

### TO ENCOURAGE SLEEP

What can I do to get more sleep? Age 65, work on a farm. Have good health. Makes no difference whether I go to bed at 8, 9, or 10, nearly always awake at 1 or 2, and no more sleep that night, which makes the night rather long. I have plenty of ventilation. Whether I work so as to get very tired or only a little tired or not tired makes no difference. I have also tried light suppers and no suppers.—Subscriber.

You have formed a habit of waking at one or two o'clock. Try any reasonable plan to break the habit. Go to bed at the usual hour. If you do wake up don't be disturbed about it. Don't lie and fight anxiously for sleep. Tell yourself that you are resting comfortably and it makes very little difference whether you sleep any more or not. You will do better by refusing to be anxious. Have a Sterno lamp at the bedside, make a hot drink and take a little lunch. A thermos bottle will make the lamp unnecessary. When you get into the sixties it is no uncommon thing to find that five or six hours is all the sleep needed.

### DULL PAIN IN SIDE

I am a woman 24 years of age, and for 3 months I have been bothered with a dull pain in my left side just below the waistline, especially when I exert myself. I feel low spirited and irritable. I have a baby nine months old. Could you please advise me what to do?—Mrs. C. B. T.

Much of your trouble may come

from lack of proper nutrition and insufficient sleep. Both these conditions are very common in young mothers. If extra sleep and nourishment fail to relieve ask your doctor to examine heart action and blood pressure.

### RIGHT FOOD

Tell me how to get my boy to eat things that are really good for him. He hates milk and most vegetables.—G. B. T.

There are ways of making a despised food attractive by special cooking or other preparation. For example, a child who "hates milk" will drink cocoa, eat custard, or enjoy a milkshake. Many a child who objects to certain foods will dispose of them if he understands that there will be no dessert, until his plate is cleared. Most of these objections to foods can be traced back to the baby days when you made too much of the little one's likes and dislikes. Get some literature (you can get it in story form) that will show the boy his need of food like milk and green vegetables for the vitamins they contain. Stir up his ambition to be a strong man. The story of "Rosy Cheeks and Strong Heart" published by the American Child Health Association, 370 Seventh Ave., New York City, is a good one

to encourage good food habits. It costs thirty cents.

### FOOT TROUBLE

My feet ache very easily if I walk much but soon get comfortable when I am off them. The aching is almost unbearable at night after working all day.—F. D. T.

This is probably due to weak arches. You can improve their muscular tone by such exercises as rising forward on the toes, walking with your weight on the outer border of the foot, and walking without quite allowing the heel to touch the ground. In severe cases it is sometimes wise to use artificial supports, but no young person should rely upon them.

### DIARRHOEA AND TYPHOID

Can diarrhoea run into typhoid fever? Do you think it could be checked by boiling the water?—D. D.

The diarrhoea will not "run into" typhoid fever unless there is some contact with typhoid infection. Boiling the drinking water is a wise move in any case of intestinal infection whether there is danger of typhoid or not.

Gogoslof, Alaska's volcanic island, has moved four miles south and one mile east of its charted position.



Keep  
Warm  
and  
Comfortable  
in

The  
Reg. U. S. Pat. Off. Old Reliable

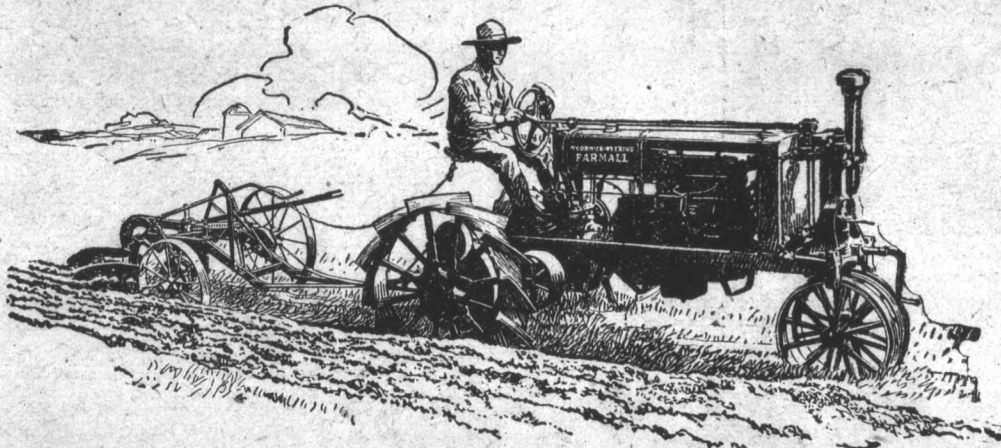
## Brown's Beach Jacket

Just the garment for rough-and-ready outdoor service—warm, strong, and cut to fit snugly without binding. Will not rip, ravel or tear and can be washed without losing shape or warmth. Ask your dealer to show you the three styles—coat with or without collar, and vest.

An ideal Christmas gift for the outdoor worker

BROWN'S BEACH JACKET COMPANY  
Worcester, Massachusetts

Try a Michigan Farmer Liner  
for Good Results



## FARMALL Plowing and Belt Work Simply Can't Be Surpassed!

**T**HERE is enthusiasm for the work of the FARMALL wherever this perfected tractor appears. On all crops, on all jobs in field and barnyard, it shows the power farmer something new in handling and efficiency.

Plowing is one of its strongest suits. The FARMALL owner goes out to tackle that once-dreaded job with interest and good humor. He has learned that FARMALL and its plow will move handily and rapidly over the fields and leave well-turned furrows behind, in ideal shape for the operations and the crops to follow.

On belt work it is the same. We have dozens of positive letters from owners.

D. M. Hastings of Atlanta, Ga., writes, "You deserve a pat on the back for the FARMALL. Please do not thank me for this as it is well deserved." He has used his FARMALL on every kind of work including many belt jobs.

Remember that the Harvester engineers devoted several years to working out this all-purpose, all-crop, all-year design. They tried out thoroughly every type of design. When FARMALL was right for all drawbar, belt and power take-off work they offered it to the farmer. The FARMALL is the one all-purpose tractor that plants and cultivates, too. It is the feature of power farming today.

Begin by asking the McCormick-Deering dealer where you can see a FARMALL on the job

## INTERNATIONAL HARVESTER COMPANY

606 So. Michigan Ave. of America (Incorporated) Chicago, Illinois

93 Branch Houses in the U. S.; the following in Michigan Farmer territory--Detroit, Grand Rapids, Green Bay, Jackson, Saginaw

... And next spring  
your FARMALL will  
be all ready to go at  
the PLANTING and  
CULTIVATING  
jobs. It's that kind  
of a tractor!





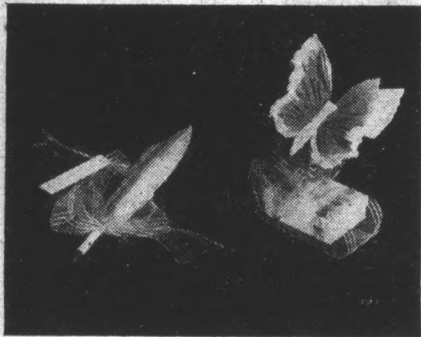
# The WOMAN'S INTERESTS

## Make Your Own Table Favors

*To Express Individuality of Hostess and the Selected Color Scheme*

By Dorothy Wright

AN important part of every party is some sort of clever favor that one's guests may take home. Containers for candy or salted nuts, favors, and place cards made on simple toys or packages of candy, serve a double purpose because they also form a part of the decorative color scheme of the table on which they are used. Every hostess likes to surprise her guests with things that are different—things that are appropriate and charming and yet inexpensive and easy to make. Crepe paper is so pliable that you can stretch it or gather it, ruffle or flute it, and then



These Unusual Favors Express Individuality of Hostess

hold it in place with a bit of paste and is especially adapted to making the favors illustrated here.

The colors, of course, are important and must be selected to harmonize with the decoration used in the center of the table. When the butterfly is used on the little box of nuts or candies, a butterfly can be perched on a spiral in the midst of the center bouquet. And when the fleur-de-lis pencil or place card is used at the individual plate, fleur-de-lis would be most attractive among the flowers of the centerpiece.

### Quill Combines with Place Card

Wrap a pencil of any kind with strips of crepe paper, cut across the grain,  $\frac{1}{2}$  inch wide. The paper for wrapping pencils or stems must always be cut across the grain, so that it may be stretched as it is wrapped about the stem, thus giving a smooth surface. Cut two pieces of crepe paper in quill shape, 8 inches long, the grain of the paper running crosswise of the quill. By folding the paper several times eight pieces may be cut at one time, so that when a quantity are being made, time may be saved in this way. Now take a piece of No. 10 wire, 10 inches long and brush it with paste on all sides for 8 inches. Place this pasted wire lengthwise in the center between two of the cut pieces and press them gently together. Fasten the end of the wire to the pencil as in the illustration and tie a piece of narrow ribbon over the wire, the place card being held at the end of the ribbon.

### Butterfly Favor

Cut two pieces of crepe paper, according to size butterfly desired, one smaller than the other as shown in illustration. Place them together and gather slightly through the center—the grain of the paper running crosswise. Fasten with spool wire. Cut three thicknesses of crepe in the shape shown for the body and fasten to the wings with spool wire wrapped with crepe paper the same color as

the body. Bring the wire over and under the body three times. For the spiral, fasten a double piece of No. 9 wire, wrapped, under the body, wind the balance around a pencil to shape into a spiral, and fasten to the small box. A bow of ribbon may be tied to the lower part of the spiral.

### Flower Nut Cups Are Easily Made

The handles are made of No. 9 wire wrapped with  $\frac{1}{2}$  inch wide strips of crepe paper. Fasten the ends to the outside of the cup with tabs of gummed cloth tape. The crepe paper for the cup covering is first cut in a strip. The strip is folded to 8 thicknesses, with the grain, and the pointed petals cut through the eight thicknesses. Curl the petal ends very slightly over a blade and wrap around the cup. A narrow strip is then placed around the bottom to finish.

### Fleur-de-lis Pencil Is Unusual

The fleur-de-lis has six single petals, cut wide at the top, which are wired through the center similar to the quill. Three of the petals have small pieces of yellow crepe paper, which have been stretched and then crushed, pasted along the center of the lower half. The center is a small bunch of yellow paper made into a fringe. Place the fringe at the end of the

pencil, then place the three plain petals around the center and the three trimmed petals on the outside between the plain ones with the trimming to the inside. Fasten with spool wire. Bend the three plain petals in rounding shape to meet at the top. Bend the other three outward also in rounding shape. Wrap the pencil with crepe paper and attach two long narrow green crepe paper leaves as in the illustration, tying them with narrow ribbon.

Once you begin to make things with crepe paper, you will find the work fascinating. It will also give you an opportunity to make some of your pin money right at home by taking orders for making special favors when your friends entertain.

Our new booklet, "Tables and Favors" contains illustrated directions for all occasions. For a copy of it, send ten cents in stamps or coin to Woman's Interests Department, Desk L, Michigan Farmer, Detroit, Mich.

### A PRACTICAL IDEA

IF for any reason you wish a night light in case of illness, or where there is a baby, a very satisfactory degree of illumination will be secured,

and that too of a softened character, by screwing a small watt, frosted electric bulb into a base plug in the floor or baseboard. This brings the light well below the level of the eye, and it is easy to screen it if one wishes, by setting something in front of it. Of course, nothing should touch the bulb or shut in the heat which it generates. This is true of any bulb, anywhere, in any position, as fire might be the result.—Mrs. W.

### TO ROUND OUT HOLIDAY MENUS

#### Vanity Rice

Boil one cup rice twenty minutes and drain. Then mix with one can shredded pineapple after juice has been drained off. Sweeten to taste and fold in one cup whipped cream.—Mrs. L. C.

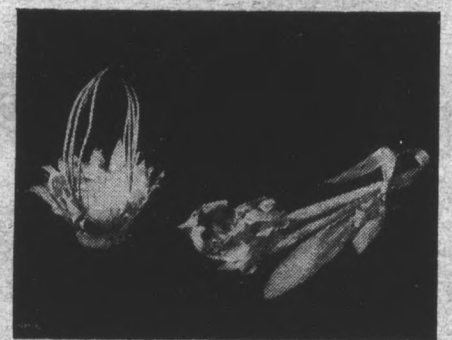
#### Carrot Recipe

Fry a few slices of bacon in a skillet until brown. Slice in two good sized onions and about a dozen good sized carrots. Cover with water. Keep plenty of water on until carrots are thoroughly cooked, season with salt, (and if you like) catsup, tomatoes, or tomato juice to suit the taste. Serve hot. Peas or corn added five minutes before serving. Cooked rice or macaroni add variety. Cubes of fresh beef or other meat may be used instead of bacon.—Miss E. W.

#### Jellied Chicken

1 tablespoon gelatin	$\frac{1}{4}$ cup cold water
$\frac{3}{4}$ cup hot chicken stock	1 cup diced cooked chicken
1 cup cream	1 pimiento, cut in pieces
Salt	Pepper

Soak gelatin in cold water, dissolve in hot stock, stirring until dissolved. Add salt and pepper to taste. When beginning to thicken, beat until frothy, then fold in whipped cream and other ingredients. Place in mold and chill for two hours. Serve on bed of water.



Favors Add a Colorful Note to Your Party Decorations

dress and garnish with mayonnaise. If canned chicken is used, water may replace the stock.—Mrs. C. H.

### AT THE CLUB Elsa Steward Clark

Today at club we had a talk,  
And it was very good.  
She told us how to fix our homes,  
What tasteful was in wood.  
Just how to hang new draperies  
How to arrange a hall,  
But what to do with what you've got  
She never told at all.

She told us just what furniture  
Would make our rooms look best.  
The color schemes and balanced groups  
That to good taste attest.  
How to select accessories,  
I'm sure I learned a lot  
But I wish she'd told me what to do  
With all the stuff I've got.

## Gifts from Your Kitchen

*Treat Your Friends to Home-made Candy*

Old Mother Hubbard  
Went to her cupboard  
'Twas Christmas Eve, so I'm told,  
For gifts she had candy, my dears,  
As much as the cupboard would hold.

WHY not follow Mother Hubbard's example this Christmas and let candy help out on that long Christmas list? The feminine giver who has not had the fun of making candies for her gifts does not know the real spirit of Christmas time. Besides, what is more acceptable than a box of home-made candies? Then, too, such a gift may solve the problem of what to give to that person who seems to have everything.

Success in candy making depends upon the use of good ingredients, careful testing and—in the case of cream candies, fudge, for example—plenty of elbow grease. For one who makes a great deal of candy, a candy thermometer is a valuable asset.

Below are a few recipes which will make a nice assortment for Christmas boxes:

### Caramel Nut Fudge

2 cups white sugar	$\frac{1}{2}$ teaspoon vanilla
$\frac{1}{4}$ cup milk	Pinch salt
4 tablespoons caramel	$\frac{1}{2}$ cup broken pecan meats
3 tablespoons butter	

Cook sugar, milk, and caramel together until a soft ball is formed in cold water. Add butter and remove from fire. Let stand until almost cold. Add vanilla and beat until cool and thick. Add nuts when mixture begins to thicken while beating.

The caramel is made by melting one cup sugar in a skillet over fire, stirring constantly. Remove from flame when the sugar is melted and a caramel color and add one cup of boiling water and let simmer a few minutes. Store in a fruit jar. This is nice for

flavoring custards, and icings as well as candy, and will keep indefinitely.

### Butter Scotch

1 cup brown sugar	$\frac{1}{2}$ cup cold water
$\frac{1}{4}$ cup yellow corn syrup	$\frac{1}{4}$ cup butter
1 tablespoon vinegar	

Boil all ingredients together (excepting vanilla) until brittle when tested in cold water. Remove from fire, add vanilla and if you have a metal table-top or large cookie-sheets, drop mixture by teaspoonfuls on these. The candy does not stick and is in a more convenient size and easier to handle than when poured in a sheet and cut in squares.

### Divinity

2 cups white sugar	$\frac{1}{2}$ cup
$\frac{1}{4}$ cup white corn syrup	candied cherries, can-
$\frac{1}{4}$ cup boiling water	dated pineapple, figs,
2 egg whites	dates, chopped fine.
$\frac{1}{4}$ cup broken nut meats	

Boil the sugar, syrup, and water until a hard ball forms in cold water. Beat egg whites stiff and dry; then pour syrup over them gradually. Beat constantly and when mixture begins to stiffen add candied fruit and nuts. Spread in a sheet one inch thick on a greased platter.

When candy is ready for packing, cut wax paper to fit boxes, cut candy in uniform pieces, gauging the size of the pieces by the width of the box. If two layers are packed, have wax paper and cardboard between layers. Wrap the boxes neatly and tie with Christmas colors and a gay little card and you have a very attractive and acceptable gift.

Candy may be made two weeks or more ahead to relieve congestion at Christmas time. Fortunately, even the chocolate and caramel fudges can be made as much as two weeks before needed without diminishing their good qualities.—Mrs. W. Alderson.



## FOR YOUR INFORMATION

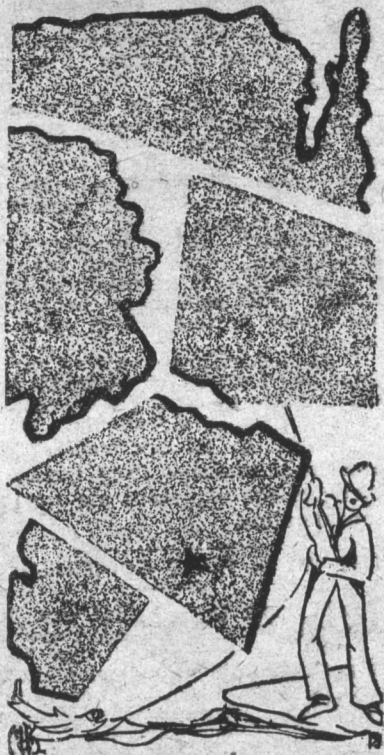
IT'S getting the time of year to hurry everything but the pigs' squeal into a pork barrel or glass cans. If you would like directions for canning meat by the cold pack method or for curing pork and beef by different methods, you will find this information and more in our service bulletin "How to Preserve Meats."

Potatoes are such an ordinary every day food that we keep preparing them every day in the same old way. But this typically American vegetable is adaptable to many tasty recipes. Our new bulletin "Tested Recipes for Michigan Potatoes" contains recipes for serving potatoes in more than fifty different ways.

If you would like a copy of either or both of these bulletins, send five cents each to cover cost of mailing to Martha Cole, Desk M, Michigan Farmer, Detroit, Michigan.

## Our Little Folks

## STATE SECRETS



This state is famous for its cheeses, its pretzels and its cool lake breezes;

LaCrosse sounds French, Milwaukee's Dutch,

Oshkosh! I think I've said too much!

If you cut out the puzzle carefully, the parts when fitted together will form a state. The little black star shows where the capitol is. Can you tell which state it is and name its capitol? What can you tell about the state?

The answer to last week's "State Secrets" was Wyoming and its capitol is Cheyenne.

## A TRICK TO TRY

IT'S real fun to do invisible writing. Some afternoon when it is too rainy to play outside, have mother or big sister find you two pieces of glazed paper that have not been water marked. Wet one of the pieces and lay it against a window pane or mirror. Next lay the dry piece over it and on the dry paper, write your name with a dull lead pencil, bearing down a little harder than for ordinary writing. Lift the wet paper and lay it on some flat surface to dry.

When it is dry, it will be a perfectly plain sheet of paper with no trace of writing on it. Then dampen it again and the writing will show plainly when held to the light.

You can have heaps of fun tricking your little friends if you prepare the piece of paper when they do not see you.—Aunt Martha.



## MICHIGAN

Adrian  
Albion  
Allegan  
Alma  
Alpena  
Battle Creek  
Benton Harbor  
Big Rapids  
Calumet  
Cadillac  
Caro  
Cheboygan  
Coldwater  
Crystal Falls  
Escanaba  
Hillsdale  
Holland  
Houghton  
Ionia  
Iron Mountain  
Iron River  
Ironwood  
Ishpeming  
Kalamazoo  
Lapeer  
Ludington  
Marquette  
Manistee  
Manistique  
Monroe  
Muskegon  
Niles  
Owosso  
Petoskey  
Port Huron  
Saginaw  
St. Johns  
Sault Ste. Marie  
Sturgis  
Traverse City



This Christmas  
**GIVE and SAVE!**  
Enjoy the Economies Offered by Our Vast  
Buying Resources

THE spirit of Christmas is the spirit of Giving! The rest of the year 'round we plan and devise to conserve what we have and add per chance to our worldly stores. Then Christmas comes with its wholesome traditions and symbols—its glistening candles, its radiant mistletoe, its kindly faced, gift-laden Santa Claus. Into the universal heart of mankind comes the feeling that living for others is after all the most glorious experience that Life holds.

Your nearest J. C. Penney Company Store is anxious to help you celebrate Christmas-tide in fullest accord with the

## Jaciel

Toilet Preparations  
Sold Exclusively  
In Our Stores

DELIGHTFUL GIFTS FOR  
THE HOLIDAYS

Face Powder in neat container . . . . .49c  
Talcum Powder in glass jar . . . . .49c  
Toilet Water in glass bottle . . . . .98c  
Set of three packed in handsome satin-lined box, \$1.98

When ordering by mail, add 5c for each article to cover parcel postage—15c for the set.

spirit of the season and with economies. You will find in our Store a wide assortment of quality merchandise admirably suited for the purpose. Toys and practical gifts for the children, wearing apparel and footwear of all kinds for the man, woman and youngster, useful and attractive accessories for the home itself.

And our Christmas prices are the same low prices enjoyed the year 'round. Your Christmas Dollar will go a long way here. The resultant savings will provide additional gifts for those whom you have not been able to include on your gift list before.

Please send your address so that we can send our Store News Catalogs to you from time to time.

A NATION-WIDE INSTITUTION—  
**J.C. PENNEY Co.**

The J. C. Penney Company wishes its millions of customers a Merry Christmas and a Happy New Year.



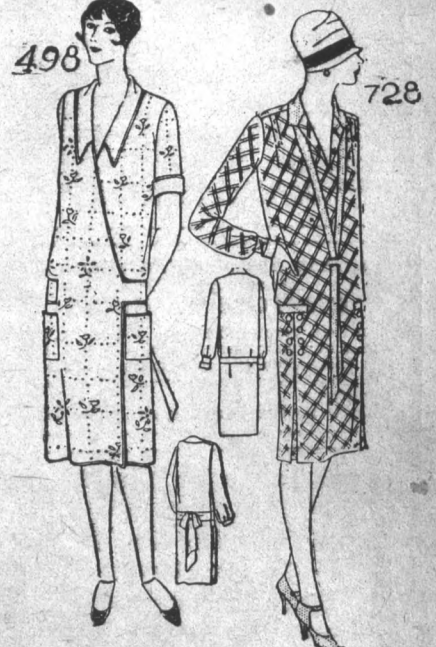
**NEW Low Model MELOTTE**  
30 Days Free Trial

**Don't Pay for 4 Months**  
Yes, you need not pay one cent for 4 Months after you receive the NEW Melotte. Special Introductory Low Price RIGHT NOW! 30 Days' FREE Trial. Write for FREE Book and Special Offer.  
The MELOTTE SEPARATOR, E. W. Rabson, U.S. Mgr.  
2843 West 19th Street, Dept. 31-09, Chicago, Ill.  
2445 Prince Street, St. Louis, Mo.

## Michigan Farmer Patterns

No. 901—Particularly Smart. Designed in sizes 36, 38, 40, 42, 44, 46, 48, and 50-inches bust measure. The 36-inch size requires 3 3/4 yards of 40-inch material with 5/8 yards of 36-inch contrasting.

No. 833—Smart Apron And Cap. Designed in sizes small, medium, and large. The medium size requires 2 yards of 36-inch material with 5/8 yards of binding.



No. 498—Morning Or House Dress. Pattern cuts in sizes 36, 38, 40, 42, and 44 inches bust measure. Size 36 requires 3 1/4 yards of 40-inch material with 1/2 yard of 36-inch contrasting.

No. 728—Becoming Street Dress. Pattern cuts in sizes 16, 18 years, 36, 38, 40, 42, 44, and 46 inches bust measure. Size 36 requires 3 yards of 40-inch material with 1/2 yard of 36-inch contrasting.

All patterns 13c each. Just enclose 13c extra when you order your pattern and a copy of our New Fall and Winter Pattern Catalogue will be sent to you. Address your orders to PAT-TERN DEPARTMENT, MICHIGAN FARMER, DETROIT, MICHIGAN.



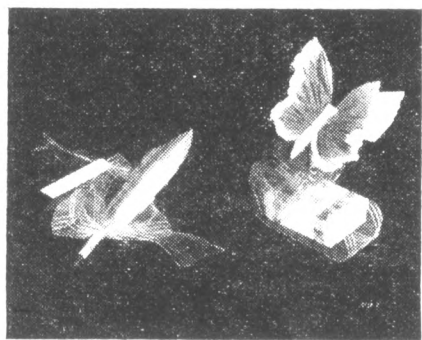


# Make Your Own Table Favors

*To Express Individuality of Hostess and the Selected Color Scheme*

By Dorothy Wright

AN important part of every party is some sort of clever favor that one's guests may take home. Containers for candy or salted nuts, favors, and place cards made on simple toys or packages of candy, serve a double purpose because they also form a part of the decorative color scheme of the table on which they are used. Every hostess likes to surprise her guests with things that are different—things that are appropriate and charming and yet inexpensive and easy to make. Crepe paper is so pliable that you can stretch it or gather it, ruffle or flute it, and then



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The colors, of course, are important and must be selected to harmonize with the decoration used in the center of the table. When the butterfly is used on the little box of nuts or candies, a butterfly can be perched on a spiral in the midst of the center bouquet. And when the fleur-de-lis pencil or place card is used at the individual plate, fleur-de-lis would be most attractive among the flowers of the centerpiece.

#### Quill Combines with Place Card

Wrap a pencil of any kind with strips of crepe paper, cut across the grain,  $\frac{1}{2}$  inch wide. The paper for wrapping pencils or stems must always be cut across the grain, so that it may be stretched as it is wrapped about the stem, thus giving a smooth surface. Cut two pieces of crepe paper in quill shape, 8 inches long, the grain of the paper running crosswise of the quill. By folding the paper several times eight pieces may be cut at one time, so that when a quantity are being made, time may be saved in this way. Now take a piece of No. 10 wire, 10 inches long and brush it with paste on all sides for 8 inches. Place this pasted wire lengthwise in the center between two of the cut pieces and press them gently together. Fasten the end of the wire to the pencil as in the illustration and tie a piece of narrow ribbon over the wire, the place card being held at the end of the ribbon.

#### Butterfly Favor

Cut two pieces of crepe paper, according to size butterfly desired, one smaller than the other as shown in illustration. Place them together and gather slightly through the center—the grain of the paper running crosswise. Fasten with spool wire. Cut three thicknesses of crepe in the shape shown for the body and fasten to the wings with spool wire wrapped with crepe paper the same color as

the body. Bring the wire over and under the body three times. For the spiral, fasten a double piece of No. 9 wire, wrapped, under the body, wind the balance around a pencil to shape into a spiral, and fasten to the small box. A bow of ribbon may be tied to the lower part of the spiral.

#### Flower Nut Cups Are Easily Made

The handles are made of No. 9 wire wrapped with  $\frac{1}{2}$  inch wide strips of crepe paper. Fasten the ends to the outside of the cup with tabs of gummed cloth tape. The crepe paper for the cup covering is first cut in a strip. The strip is folded to 8 thicknesses, with the grain, and the pointed petals cut through the eight thicknesses. Curl the petal ends very slightly over a blade and wrap around the cup. A narrow strip is then placed around the bottom to finish.

#### Fleur-de-lis Pencil Is Unusual

The fleur-de-lis has six single petals, cut wide at the top, which are wired through the center similar to the quill. Three of the petals have small pieces of yellow crepe paper, which have been stretched and then crushed, pasted along the center of the lower half. The center is a small bunch of yellow paper made into a fringe. Place the fringe at the end of the

pencil, then place the three plain petals around the center and the three trimmed petals on the outside between the plain ones with the trimming to the inside. Fasten with spool wire. Bend the three plain petals in rounding shape to meet at the top. Bend the other three outward also in rounding shape. Wrap the pencil with crepe paper and attach two long narrow green crepe paper leaves as in the illustration, tying them with narrow ribbon.

Once you begin to make things with crepe paper, you will find the work fascinating. It will also give you an opportunity to make some of your pin money right at home by taking orders for making special favors when your friends entertain.

Our new booklet, "Tables and Favors" contains illustrated directions for all occasions. For a copy of it, send ten cents in stamps or coin to Woman's Interests Department, Desk L, Michigan Farmer, Detroit, Mich.

#### A PRACTICAL IDEA

IF for any reason you wish a night light in case of illness, or where there is a baby, a very satisfactory degree of illumination will be secured,

and that too of a softened character, by screwing a small watt, frosted electric bulb into a base plug in the floor or baseboard. This brings the light well below the level of the eye, and it is easy to screen it if one wishes, by setting something in front of it. Of course, nothing should touch the bulb or shut in the heat which it generates. This is true of any bulb, anywhere, in any position, as fire might be the result.—Mrs. W.

#### TO ROUND OUT HOLIDAY MENUS

##### Vanity Rice

Boil one cup rice twenty minutes and drain. Then mix with one can shredded pineapple after juice has been drained off. Sweeten to taste and fold in one cup whipped cream.—Mrs. L. C.

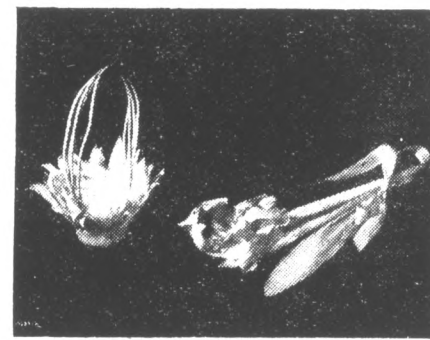
##### Carrot Recipe

Fry a few slices of bacon in a skillet until brown. Slice in two good sized onions and about a dozen good sized carrots. Cover with water. Keep plenty of water on until carrots are thoroughly cooked, season with salt, (and if you like) catsup, tomatoes, or tomato juice to suit the taste. Serve hot. Peas or corn added five minutes before serving. Cooked rice or macaroni add variety. Cubes of fresh beef or other meat may be used instead of bacon.—Miss E. W.

##### Jellied Chicken

1 tablespoon gelatin  $\frac{1}{4}$  cup cold water  
3 cup hot chicken stock 1 cup dried cooked chicken  
1 cup cream 1 pimento, cut in pieces  
Salt Pepper

Soak gelatin in cold water, dissolve in hot stock, stirring until dissolved. Add salt and pepper to taste. When beginning to thicken, beat until frothy, then fold in whipped cream and other ingredients. Place in mold and chill for two hours. Serve on bed of water-



Favors Add a Colorful Note to Your Party Decorations

dress and garnish with mayonnaise. If canned chicken is used, water may replace the stock.—Mrs. C. H.

#### AT THE CLUB Elsa Steward Clark

Today at club we had a talk, And it was very good. She told us how to fix our homes, What tasteful was in wood. Just how to hang new draperies How to arrange a hall, But what to do with what you've got She never told at all.

She told us just what furniture Would make our rooms look best. The color schemes and balanced groups That to good taste attest. How to select accessories, I'm sure I learned a lot But I wish she'd told me what to do With all the stuff I've got.

## Gifts from Your Kitchen

*Treat Your Friends to Home-made Candy*

Old Mother Hubbard Went to her cupboard 'Twas Christmas Eve, so I'm told, For gifts she had candy, my dears, As much as the cupboard would hold.

WHY not follow Mother Hubbard's example this Christmas and let candy help out on that long Christmas list? The feminine giver who has not had the fun of making candies for her gifts does not know the real spirit of Christmas time. Besides, what is more acceptable than a box of home-made candies? Then, too, such a gift may solve the problem of what to give to that person who seems to have everything.

Success in candy making depends upon the use of good ingredients, careful testing and in the case of cream candies, fudge, for example, plenty of elbow grease. For one who makes a great deal of candy, a candy thermometer is a valuable asset.

Below are a few recipes which will make a nice assortment for Christmas boxes:

#### Caramel Nut Fudge

2 cups white sugar  $\frac{1}{2}$  teaspoon vanilla  
 $\frac{1}{2}$  cup milk Pinch salt  
4 tablespoons caramel  $\frac{1}{2}$  cup broken pecan meats  
3 tablespoons butter

Cook sugar, milk, and caramel together until a soft ball is formed in cold water. Add butter and remove from fire. Let stand until almost cold. Add vanilla and beat until cool and thick. Add nuts when mixture begins to thicken while beating.

The caramel is made by melting one cup sugar in a skillet over fire, stirring constantly. Remove from flame when the sugar is melted and a caramel color and add one cup of boiling water and let simmer a few minutes. Store in a fruit jar. This is nice for

flavoring custards, and icings as well as candy, and will keep indefinitely.

#### Butter Scotch

1 cup brown sugar  $\frac{1}{2}$  cup water  
 $\frac{1}{2}$  cup yellow corn syrup  $\frac{1}{4}$  cup butter  
1 tablespoon vinegar

Boil all ingredients together (excepting vanilla) until brittle when tested in cold water. Remove from fire, add vanilla and if you have a metal table-top or large cookie-sheets, drop mixture by teaspoonfuls on these. The candy does not stick and is in a more convenient size and easier to handle than when poured in a sheet and cut in squares.

#### Divinity

2 cups white sugar  $\frac{1}{2}$  cup  
 $\frac{1}{2}$  cup white corn syrup candied cherries, can-  
 $\frac{1}{4}$  cup boiling water dried pineapple, figs,  
2 egg whites dates, chopped fine,  
 $\frac{1}{2}$  cup broken nut meats

Boil the sugar, syrup, and water until a hard ball forms in cold water. Beat egg whites stiff and dry; then pour syrup over them gradually. Beat constantly and when mixture begins to stiffen add candied fruit and nuts. Spread in a sheet one inch thick on a greased platter.

When candy is ready for packing, cut wax paper to fit boxes, cut candy in uniform pieces, gauging the size of the pieces by the width of the box. If two layers are packed, have wax paper and card-board between layers. Wrap the boxes neatly and tie with Christmas colors and a gay little card and you have a very attractive and acceptable gift.

Candy may be made two weeks or more ahead to relieve congestion at Christmas time. Fortunately, even the chocolate and caramel fudges can be made as much as two weeks before needed without diminishing their good qualities.—Mrs. W. Alderson.



## FOR YOUR INFORMATION

IT'S getting the time of year to hurry everything but the pigs' squeal into a pork barrel or glass cans. If you would like directions for canning meat by the cold pack method or for curing pork and beef by different methods, you will find this information and more in our service bulletin "How to Preserve Meats."

Potatoes are such an ordinary every day food that we keep preparing them every day in the same old way. But this typically American vegetable is adaptable to many tasty recipes. Our new bulletin "Tested Recipes for Michigan Potatoes" contains recipes for serving potatoes in more than fifty different ways.

If you would like a copy of either or both of these bulletins, send five cents each to cover cost of mailing to Martha Cole, Desk M, Michigan Farmer, Detroit, Michigan.

## Our Little Folks

## STATE SECRETS



This state is famous for its cheeses, its pretzels and its cool lake breezes; LaCrosse sounds French, Milwaukee's Dutch, Oshkosh! I think I've said too much!

If you cut out the puzzle carefully, the parts when fitted together will form a state. The little black star shows where the capitol is. Can you tell which state it is and name its capitol? What can you tell about the state?

The answer to last week's "State Secrets" was Wyoming and its capitol is Cheyenne.

## A TRICK TO TRY

IT'S real fun to do invisible writing. Some afternoon when it is too rainy to play outside, have mother or big sister find you two pieces of glazed paper that have not been water marked. Wet one of the pieces and lay it against a window pane or mirror. Next lay the dry piece over it and on the dry paper, write your name with a dull lead pencil, bearing down a little harder than for ordinary writing. Lift the wet paper and lay it on some flat surface to dry.

When it is dry, it will be a perfectly plain sheet of paper with no trace of writing on it. Then dampen it again and the writing will show plainly when held to the light.

You can have heaps of fun tricking your little friends if you prepare the piece of paper when they do not see you.—Aunt Martha.

## MICHIGAN

Adrian  
Albion  
Allegan  
Alma  
Alpena  
Battle Creek  
Benton Harbor  
Big Rapids  
Calumet  
Cadillac  
Caro  
Cheboygan  
Coldwater  
Crystal Falls  
Escanaba  
Hillsdale  
Holland  
Houghton  
Ionia  
Iron Mountain  
Iron River  
Ironwood  
Ishpeming  
Kalamazoo  
Lapeer  
Ludington  
Marquette  
Manistee  
Manistique  
Monroe  
Muskegon  
Niles  
Owosso  
Petoskey  
Port Huron  
Saginaw  
St. Johns  
Sault Ste. Marie  
Sturgis  
Traverse City



J.C. PENNEY Co.

This Christmas  
GIVE and SAVE!

Enjoy the Economies Offered by Our Vast Buying Resources

THE spirit of Christmas is the spirit of Giving! The rest of the year 'round we plan and devise to conserve what we have and add perchance to our worldly stores. Then Christmas comes with its wholesome traditions and symbols—its glistening candles, its radiant mistletoe, its kindly faced, gift-laden Santa Claus. Into the universal heart of mankind comes the feeling that living for others is after all the most glorious experience that Life holds.

Your nearest J. C. Penney Company Store is anxious to help you celebrate Christmas-tide in fullest accord with the

## Jaciel

Toilet Preparations

Sold Exclusively

In Our Stores

DELIGHTFUL GIFTS FOR

THE HOLIDAYS

Face Powder in neat container . . . 49c  
Talcum Powder in glass jar . . . 49c  
Toilet Water in glass bottle . . . 98c  
Set of three packed in handsome satin-lined box, \$1.98

When ordering by mail, add 5c for each article to cover parcel postage—15c for the set.

spirit of the season and with economies. You will find in our Store a wide assortment of quality merchandise admirably suited for the purpose. Toys and practical gifts for the children, wearing apparel and footwear of all kinds for the man, woman and youngster, useful and attractive accessories for the home itself.

And our Christmas prices are the same low prices enjoyed the year 'round. Your Christmas Dollar will go a long way here. The resultant savings will provide additional gifts for those whom you have not been able to include on your gift list before.

J.C. PENNEY Co.

A NATION-WIDE INSTITUTION

The J. C. Penney Company wishes its millions of customers a Merry Christmas and a Happy New Year.



**NEW Low Model MELOTTE**  
30 Days Free Trial

NOW—for the first time, the farmers of America have a chance—if they act quick!—to see and USE on 30 Days' FREE Trial the NEW Low Model Belgian Melotte Cream Separator. In the NEW Melotte you NOW have a greater convenience and all-round satisfaction than was ever known before.

**Don't Pay for 4 Months**

Yes, you need not pay one cent for 4 Months after you receive the NEW Melotte. Special Introductory Low Price RIGHT NOW! 30 Days' FREE Trial. Write for FREE Book and Special Offer.

The MELOTTE SEPARATOR, E. P. Melotte, U.S. Mar. 2843 West 15th Street, Dept. 31-00 Chicago, Ill. 2445 Prince Street, N.Y.

## Michigan Farmer Patterns

No. 901—Particularly Smart. Designed in sizes 36, 38, 40, 42, 44, 46, 48, and 50-inches bust measure. The 36-inch size requires 3 3/4 yards of 40-inch material with 5/8 yards of 36-inch contrasting.

No. 833—Smart Apron And Cap. Designed in sizes small, medium, and large. The medium size requires 2 yards of 36-inch material with 5/8 yards of binding.

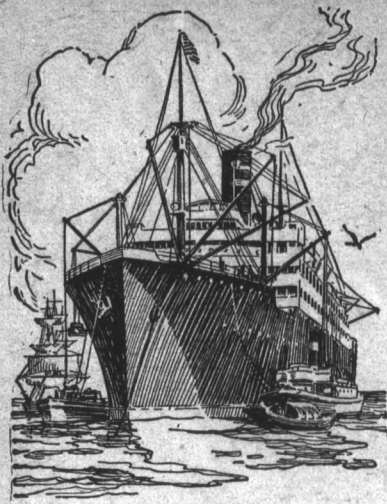


No. 498—Morning Or House Dress. Pattern cuts in sizes 36, 38, 40, 42, and 44 inches bust measure. Size 36 requires 3 1/4 yards of 40-inch material with 1/2 yard of 36-inch contrasting.

No. 728—Becoming Street Dress. Pattern cuts in sizes 16, 18 years, 36, 38, 40, 42, 44, and 46 inches bust measure. Size 36 requires 3 yards of 40-inch material with 1/2 yard of 36-inch contrasting.

All patterns 13c each. Just enclose 13c extra when you order your pattern and a copy of our New Fall and Winter Pattern Catalogue will be sent to you. Address your orders to PAT-TERN DEPARTMENT, MICHIGAN FARMER, DETROIT, MICHIGAN.





## American Flag Ships to Carry Farm Products

SHIPPERS all over the country have utilized and benefited greatly by the highly efficient freight services operated under the American Flag for the United States Shipping Board. These services, comprising 25 lines and more than 300 ships, and sailing from Atlantic Coast, Pacific Coast and Gulf ports to ports in all parts of the world, have proved that they are an ideal means of opening up new markets and providing added outlets for the disposal of surplus products.

Write at once for a comprehensive booklet, profusely illustrated and containing complete description of these American Flag services, their ports of call, sailing dates, etc. to Section 22.

## UNITED STATES SHIPPING BOARD

Merchant Fleet  
Corporation  
WASHINGTON, D. C.



\$1.85



**5-Year GUARANTEE**  
To advertise our business, make new friends and introduce our new bargain catalogue of Elgin watches, we will send this elegant watch by mail post paid for ONLY \$1.85 (safe delivery guaranteed). Durable, proof of case, stem wind and stem set, newest style decorated dial, a perfect timekeeper and fully guaranteed for 5 years. Send this advertisement to us with \$1.85 and watch will be sent at once by mail post paid, or send \$3.00 and we will send two watches. Satisfaction guaranteed or money refunded. Address  
**CHICAGO WATCH AND JEWELRY CO.**  
4737 Broadway, Chicago, Ill.

### Reading Robe & Tanning Co. Reading, Mich. CUSTOM TANNERS

Send us your hides and fur pelts to be tanned and manufactured into coats, robes, neck pieces, collars and cuffs or other fur trimmings. We do repair work. Satisfaction guaranteed.

Write for Free Catalog and Price List.

## TRAPPERS

— Get More Money —

Skunk, Muskrat,  
Coon, Mink, Opossum,  
Fox, Weasel, Wolf.

Be sure of best prices.  
Write for price list now.

**BENJAMIN DORMAN**  
Famous Among Trappers for 20 Years  
147 West 24<sup>th</sup> St. New York



## More Home-Coming Letters

*Which Show Progress of Old-Timers*

**S**URPRISES come once a year they say. Whether we expect them or not! Here I am anyway!

Your first question "What in the world are you doing way down there?" I will answer in these few words—attending nurses' school in George Washington University Hospital.

This is a wonderful city but certainly is a very busy one too. We are located not far from the White House, the government buildings, museums, monuments, and memorials, and very close to New York and Pennsylvania Avenues. The Masonic Temple is



This Looks Like Jesse Shortt and Her Dog

across from the hospital, while Franklin Square is near our nurses' home.

We are having weather here which is much like Michigan summers are when not hot. Everyone here shivers and wears coats. For me it is fine. We have much rain although we have not had rain since I arrived.

Another noticeable difference between there and here is the servant proposition. We generally called our hired help, "hired help" or "girls," hired-men and so on, as the servants are of the Caucasian race. Not so here—nearly everyone employed as such, is a colored person. We have "African" cooks, scrub-women, laundresses, etc.

Here, too, the word "here" is "heah" and other noticeable changes in speech. "You all" is used a great deal.

After I have been here longer I will probably be able to write pages if I have time. There is certainly enough to tell about to those who have never been here.

Your invitation was certainly kind as I had not noticed the Home-Coming notice for I had been away from home much of the time since August. While I am here I would be glad to have others write. I can make no promises to reply at once as work here comes first, but I will do my best and I certainly would appreciate correspondents. I would rather not correspond with any one who feels they do not care to correspond long. Some have written me once or twice and then dropped correspondence just as we were getting acquainted. It seemed almost a waste of time for me because I get interested in my correspondents. No offense to be taken. Love and best wishes to all.—Wilma Fry, 1016 13th Street, N. W., Washington, D. C.

I am surprised to learn that you are so far from home, I thought you were teaching school. I will always remember your fine contributions to

Our Page. I am sure your service to the suffering will bring you happiness. Hope some M. C.'s will write to you.

Words cannot express how glad I am that "Home-Coming" is here. Even though I am too old to take an active part in the contests and letter box, yet I read each article with much interest and enjoyment.

I am glad that I saw you. It makes those pictures that the M. C.'s draw of you appear all the more funny. I laugh especially over those that think you are a big fat man with a mustache.

Uncle, I heard a statement made the other day that love and romance are dead. Do you believe this?

My idea is that the great love and romance that is said to have bound the universe are still here but are hidden away by such fickle things as jazz and deceit. We have little or no faith in our fellowmen because we are afraid of being betrayed by them.

Love is like a great light that has been darkened and hidden from this world by wicked deeds of men. It has been pushed aside by things of less value. Because it is hidden away is no sign that it doesn't exist. It is buried deep and we must hunt to find it. The more and longer we seek for it the greater it will appear when we find it.

I believe the keynote to love is trust. With trust will come happiness. With happiness, success, the thing every man and woman are looking for. With best wishes for the success of the M. C. page, I remain—"Wildflower."

Yes, and I am glad I saw you. I have just as great a curiosity to see M. C.'s I have learned to know by mail as they have to see me. I think the world is full of love and romance and will ever be. Even the wicked deeds of men cannot hide love. I am glad you are glad to come home.

## Our Letter Box

Dear Uncle Frank:

Mary Shoemaker wrote a very nice letter and here's one who perfectly agrees with her. This argument of schools is very interesting. I'm for it absolutely. It broadens your outlook on life. There was one mother who said that her sons were very well off and went only through the eighth grade. My say is, think what they would be if they were educated. Did you ever see a really very successful man that did not have an education?

Let's argue over something new. Take for instance "punishing crimes." Resolved, there should be adequate punishment for a person who kills someone who steals chestnuts, chickens, ducks, etc. As for me, I think there should. Does not one the Ten Commandments say, "Thou shall not kill?" Still you find many people who get away with it.—Mayflower.

I am glad you are for schools or rather for learning. A great many who go to school do not get an education because they work for marks instead of knowledge. Sure, stealing anything is wrong. Some people get "away with it" for a while but eventually they are caught.

Dear Uncle Frank and Cousins:

My young friend "Question Mark" has persuaded me that Uncle Frank and his large Merry Circle of nieces and nephews are polite enough and democratic enough to "enjoy"—my friend says, but I feel more like saying "tolerate"—a short call from a plain person like myself.

I am so used to hearing, "Why doesn't she stay home where she belongs?" that I may imagine that some

are whispering "Why doesn't she stay in the kitchen where she belongs?"

As a child I was always afraid to be natural for fear of being ridiculed but as I grow older, I find that I do not think so much about being misunderstood as I do about trying to understand other people.

Although much older than the Merry Circle, I am more interested in their page than any other part of the paper. I have no children of my own to be Merry Circle, yet as a child and young girl my day dreams were of children instead of "fellows." My schooling was very limited, yet my longing was always for education and culture. Perhaps I over estimated it or else it was from an unworthy motive or some other reason; at any rate, I have gained quite a little outside of school. I sometimes wonder if ignorance may not consist more in ignoring what is in plain sight rather than in not knowing what is out of reach. I have been interested in the different views of education. I believe one definition of it is "a training of the powers of the mind." If so, the different experiences of life are an education if we profit by them.

Some one spoke of the people of today "going to the dogs" and some one said he had "known some very good days" but still another person said there were "no animals that failed to live up to their possibilities as many humans beings do."

Evolution? Well, consider it as development, each "after his kind" and evolution is certainly a law of nature. Just remember though there are limits beyond which they shall not pass.

I do not wish to outstay my welcome and I will await an invitation to either come again or to stay at home where I belong.—Susan.

I think the M. C.'s would like an occasional message from Susan. The thoughts she expresses are worthy of consideration.

## THE M. C. FUND CONTRIBUTORS

I AM glad to say that the Merry Circle Fund is getting close to its goal and that we will soon be able to get the radio we contemplated buying for the Children's Hospital of Michigan. Here are the names of a few more recent contributors to the fund: Helen Dunbar, Mary Brandow, George Kalsbeek, Ejnar Krantz, Lois Nunemaker, Helen Haarala, Winnie Baer, Chubby Tahinen, Signe Backlund, Ethel Sundin, Carl Sundin, Donna Riggle, Martha Rabe, Ruth Kerr, Howard Johnston, Norma Gager, Helen Roossinck, Elsa Nitz, Winnie Grosman, Donald Sly, Ada Carpenter, Vernon Benjamin, W. H. Klea, Jr., Victoria Moeckowski, Theresa Grala, Georgia Walrod, Dorothy Pangborn, Agnes Arthur, Mabel Johnson, Lawrence Johnson, Virgil Johnson, Emma Johnson.

## A HOUSE WITH UNDERWATER DOORS

HERE is probably the best built of all wilderness homes. It is the house or lodge of a colony of beavers that have made their home on a stream in the northern wilderness.

First they dammed the stream to form a pond several feet deep, so that water would always be sure to cover the submerged doorways to their house. There is no entrance above the water, and if the pond should become shallow enough that ice sealed



A Beaver Home

the doorways in winter the beavers would die, imprisoned in their own home. They seem to know this, and



## The "CHARCO" BROODER

The Only Suspended BROODER Built  
IS BRINGING REAL  
JOY TO THOUSANDS  
OF THRIFTY POUL-  
TRYMEN!

The "CHARCO" is positively the safest, cleanest, surest and most economical BROODER you can use. The poultryman who invests in a "CHARCO" BROODER KNOWS his baby chicks are healthfully protected in all kinds of weather and SEES HIS PROFITS increase accordingly. He's amazed at the efficiency of the "CHARCO."

### HERE'S WHY:

Burns charcoal.  
No coal gas or oil fumes.  
Clear floor space. No chance for injury to chicks.  
Air always healthfully warm.  
100% circulation, warming entire floor space.  
No crowding.  
No pipes to clog or grates to wear.  
No danger from fire.  
Can be used for 2-room brooder house.  
Unlimited chick capacity.

WRITE AT ONCE FOR THE  
NEW "CHARCO" FOLDER

giving FACTS you should know about  
the greatest "BROODER" ever offered  
progressive poultrymen!

ADDRESS

**H. Eikenhout & Sons**

DEPT. A  
346-352 WEALTHY ST., S. W.,  
GRAND RAPIDS, MICHIGAN  
Manufacturers and Sole Distributors

### Largest Shippers on Great Lakes

It will pay you to send for our list of fresh frozen, smoked, salt, and canned fish. Season now open.  
BADGER FISH CO., Dept. E, Green Bay, Wis.

## Starts Hens Laying

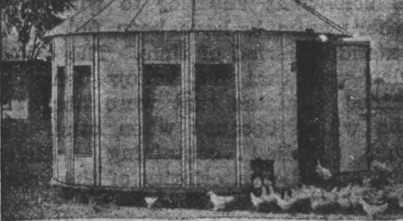
Here's a New Way to Get Eggs in Winter.  
Costs Nothing to Try

A letter from Miss Dama Wright, Vernonia, Ore., has a real idea for chicken raisers who are not getting plenty of eggs. She says:

"Late in October, our fifteen hens were not laying at all. I started giving them Don Sung, and for ten days they still didn't lay. But on the eleventh day they laid thirteen eggs, and it is wonderful what Don Sung has done for our egg basket."

Don Sung, the Chinese egg laying tablets which Miss Wright used, are opening the eyes of chicken raisers all over America. The tablets can be obtained from the Burrell-Dugger Co., 322 Postal Station Bldg., Indianapolis, Ind. Poultry raisers whose hens are not laying well should send 50 cents for a trial package (or \$1 for the extra large size, holding three times as much). Don Sung is positively guaranteed to do the work or money promptly refunded, so it costs you nothing to try. Right now is the time to start giving Don Sung to your hens, so you will have a good supply of fresh eggs all winter.

## MARTIN METAL Brooder Houses



### Stop Your Baby Chick Losses

Raise 2 pound broilers in 8 weeks—buy or hatch your chicks earlier and get higher prices. You can if you have a Martin.

Monroeville (O.) Hatchery writes—"Raised 97 per cent."

A. J. Swineford writes—"Had 2 lb. broilers in 8 weeks."

Mrs. W. Leffer writes—"Expect to buy another Martin in the spring."

Brooding chicks in a Martin is safer, easier, surer, FIRE-PROOF, rat and weasel proof, sanitary, dry, warm—even in zero weather, stove in center, no corners—prevents crowding.

"Cel-O-Glass" Windows let in the Violet Rays of the sun. Ideally ventilated—no drafts. Sizes, 600 chick and up. Shipped knocked down—easy to put up. Last a life-time. Write for illustrated folder and price.

The Martin Steel Products Co., Dept. 219, Mansfield, O.

their dam is 400 feet long and five or six feet high, raising the water of the stream far enough that the ice holds no threat.

The house, which is nearly twenty feet across and six to eight feet high, is built of large sticks, brush, stones and mud. In autumn, before ice covers the pond, the beavers plaster the outside of the walls with mud. This freezes into a coating that is hard as cement, and defies the efforts to lynxes, wolves, or other prowlers to break in and disturb the beavers in their snug winter quarters.

There is a dome-shaped room inside the house, with a dry shelf above the water on which the beavers can eat and sleep.

### AD CONTEST WINNERS

THE ad contest apparently attracted quite a little attention as we got a nice lot of replies. Most of the errors in the papers were in number one, with Ball Band as the incorrect answer. The lucky ten were selected by drawing as follows:

#### Fountain Pens

John Towersey Alma, Michigan.  
Marguerite Rose, R. 31, Cassadaga, N. Y.

#### Clutch Pencils

J. Jr. Neddermeyer, Fair Haven, Michigan.  
Reino Turin, Box 24, Kira, Mich.  
Merle Hoppie, R 10, Grand Rapids, Michigan.

#### Knives

Elizabeth Indlekafer, R. 5, Chesaning, Mich.  
Lawrence Rosevear, Mayville, Mich.  
Betty Lassila, Chassell, Michigan.  
Lovina Bell, Star Route, Barryton, Michigan.

Edith Chaffee, R 1, Cass City, Mich.

#### Correct Answers

1. By wearing Wrights health underwear.—486-8.
2. The International Live Stock Exposition.—506-28.
3. New McCormick-Deering separator.—13-491.
4. J. C. Penny Co.—15-493.
5. Keystone Steel and Wire Co.—504-26.
6. Absorbine.—8-486.
7. Drew litter carrier.—506-28.
8. Reading Robe and Tanning Co.—13-491.

### CHANGE WORD CONTEST

THIS is a new one for us but I think it will be interesting. Change the word "read" to "book" by changing only one letter at a time, making a word each time and using only five changes, or six words in all counting "read" and "book," to make the complete change. For example in changing from "has" to "not" in three changes it would work as follows: has, hat, hot, not.

Please put your name and address in the upper left hand corner of your paper. If you are a Merry Circler, put M. C. after your name. Write your letter on a sheet separate from the contest paper.

All correct papers will be mixed together and ten pulled out for prizes. The prizes will be fountain pens, clutch pencils, and loose-leaf note books. Send your contest paper to Uncle Frank, Michigan Farmer, Detroit, Mich., before Dec. 15th as the contest closes then. All not M. C.'s who get correct answers will receive M. C. pins and membership cards.

### APOPLEXY

(Continued from page 538)

caused by apoplexy or an internal rupture due to the strain of laying. Such hens are sometimes found dead under the roosts or on the nests and the loss makes up part of the normal mortality rate in a poultry flock which cannot be entirely avoided. Perform a postmortem on the hens found dead and examine the internal organs. That may give some clue concerning the cause of the loss.

For colds and roup in the poultry flock, a good preventive measure is to disinfect the drinking water as follows: To each gallon of water add one tablespoonful of sodium sulphite or as much potassium permanganate as will remain on the surface of a dime.

## Get EGGS from the Sun all Winter!

# FLEX-O-GLASS

### Puts the Sun's Heat, Health and Vital Ultra Violet Rays to Work for You!

Only 3 1/2 Sq. Ft. Stop Feeding HENS for NOTHING in Cold Weather

There's a cold storage egg shortage now. Egg prices WILL BE HIGH again THIS winter. Will you have eggs to sell at a big PROFIT, or will you feed your hens for nothing? Invest 5c per hen—the winter market price of just ONE egg—in FLEX-O-GLASS. Put it on a scratch shed, or on your poultry house front, and on windows in place of glass. The Ultra-Violet rays this wonderful material admits will keep your hens healthy and active and they'll lay to the limit in this cozy, warm, sunlit room—even in zero weather. Your hens, under Flex-O-Glass, will pay back the cost of this material in a few days—then they'll pile up a golden harvest of egg profits all thru the cold months. Thousands of poultrymen proved this last year. YOU can do it THIS year. 15 yards of Flex-O-Glass is all you need for 100 hens. Use same 15 yards in Spring for baby chicks. They'll grow faster and won't get rickets. See Our Special Guarantee Offer on this exact amount, below.

Flex-O-Glass is EASY to INSTALL. You don't need any special mill work, no elaborate frames, no special tools to make a Flex-O-Glass scratch shed or to replace your glass poultry house windows with this Ultra-Violet ray admitting material. Just cut to size and nail on. Wind can't tear it off.

There is only One FLEX-O-GLASS. All flexible glass substitutes are not Flex-O-Glass. The genuine is made on special cloth base having a scientifically calculated mesh that admits the most Ultra-Violet rays and at the same time is doubly strong and durable to resist wind, rain, ice and snow for many seasons. Flex-O-Glass users and State Experiment Stations find Flex-O-Glass stays bright and new much longer than other materials. There is only one Flex-O-Glass and every yard is marked for your protection. Be sure to get the genuine and avoid business dissatisfaction. Act NOW on our Special GUARANTEE OFFER.

PRICES—ALL POSTAGE PREPAID  
Per yd. 36 inches wide: 1 yd. 50c, 5 yds. at 40c (\$2.00); 10 yds. at 35c (\$3.50); 25 yds. at 32c (\$8.00); 100 yds. or more at 30c per yard (\$30.00).  
PROGRESSIVE DEALERS WANTED

**FLEX-O-GLASS MFG. CO.**  
1451 N. Cicero Ave., Dept. 655 Chicago, Illinois

### Enclose Your PORCHES

Make Storm-Doors and Windows Out of Screens. Don't let your porch be a cold, bleak, useless snow trap this winter. Tack a few yards of Flex-O-Glass over the screening or on 1x2 in. woodstrips easily. Save fuel, avoid drafts and enjoy a warm, sunlit room flooded with an abundance of Ultra-Violet rays. Use for work, reading, rest or health room. Also makes a healthful children's playhouse as the Ultra-Violet rays overcome child's aching legs (rickets). Also overcome many other diseases in adults as well as in children. The American Medical Association recommends Flex-O-Glass for health rooms. Take their advice. Make YOUR porch into a health room or children's playhouse NOW.

Replace Broken Windows. For garage, barn, hog-house, school house windows, etc. Flex-O-Glass scatters warm, and healthful light to every corner of the room better than glass. Holds the heat longer. Remember—just cut with shears and tack on. Looks neat, stays bright and fresh many seasons.

**Special TRIAL OFFER**  
Use Flex-O-Glass 15 Days at Our Risk

A large roll of Flex-O-Glass 3 feet wide and 45 feet long (15 square yards) will be sent you postpaid, for \$5.00. Or we will send 30 yards (3 x 90 ft.) for \$9.50, as many people use 15 yards for a Scratch Shed and 15 yards for porches, windows, etc. Use Flex-O-Glass 15 days at our risk. Satisfaction guaranteed or your money back. 24 hour service. Mail a check or money order today. Take advantage of this money back guarantee Trial Offer—today.

Mail This Guarantee Coupon Now

FLEX-O-GLASS MFG. CO., Dept. 655  
1451 N. Cicero Ave., CHICAGO, ILL.

Find enclosed \$\_\_\_\_\_ for which send me \_\_\_\_\_ yards of Flex-O-Glass 36 inches wide, by prepaid parcel post. It is understood that if I am not satisfied after using it for 15 days I may return it and you will refund my money without question.

Name \_\_\_\_\_

Town \_\_\_\_\_ State \_\_\_\_\_

R. F. D. \_\_\_\_\_ State \_\_\_\_\_

### Why Burn Coal?

or Wood in Your Cook Stove or Heater when you can have instant heat with convenience by installing a Uni-Hete Kerosene Burner in five minutes' time!

For a limited time we offer to send C. O. D. this \$15.00 burner complete—including flexible fuel supply tubes, regulating valves and galvanized iron tank, ready to install, for only \$6.00.

Fits Any Stove or Range  
Fully guaranteed against all defective workmanship and material for one year. Any part that proves defective, if returned, will be replaced free of charge.

**New 1927 Uni-Hete Burner Outfit**  
vaporizes kerosene or distillate, mixes it with air, producing an intensely hot, clean, smokeless, silent burning flame. Heat can be regulated to any degree by fuel controlling valves. Improves your stove 100%. Have been manufacturing oil burning devices for thirty-three years. We make this offer for a limited time only. Specify if for range or heater.

**ACORN BRASS MFG. COMPANY**  
1232 Acorn Building Chicago, Illinois

**More Egg Money**  
Make \$1,000 a year from 300 hens. Get eggs when prices are high. Raise chickens the Poultry Tribune way. New methods of feeding, housing, marketing, etc., that you can use. Practical articles every month by successful poultrymen. Free breed pictures in natural colors. 3 yrs., \$1. 1 yr., 50c; 3 month trial 10c.

**POULTRY TRIBUNE**  
Box 18E Mount Morris, Illinois

**Before You Build a SILO or Any Other Building**

Send for our FREE Book on Modern Farm Buildings and learn how thousands of far-sighted farmers are putting up permanent, fire-safe, Kalamazoo Glazed Tile buildings at no greater first cost than good frame construction.

**THE OLD RELIABLE KALAMAZOO SILO**  
Wood stave or glazed tile. Kalamazoo tile silos are fire - safe, frost-proof, moisture-proof, and acid-proof—the biggest profit-paying opportunity for your farm offered anywhere today. Pays for itself in one year. Don't wait. Prices are low—right now. Save money. This FREE Silo Book Tells How. Write for it.

**KALAMAZOO TANK & SILO CO.**  
Dept. ( ) Kalamazoo, Mich.

## SHIP YOUR DRESSED CALVES and LIVE POULTRY TO DETROIT BEEF COMPANY

Oldest and most reliable commission house in Detroit. Write for new shippers' guide, shipping tags and quotations.  
**Detroit Beef Company,**  
1903 Adelaide St. Detroit, Mich.

## BOWSER Crush Grind Feed Mills Mix

Rapidly crush ear corn (with or without husk) and grind all the small grains; either separately or mixed—mixed as they are being ground—not before or after. This saves time and labor.

**"Combination" Mills**  
Use the famous Cone-Shape burrs. Light Draft. Large Capacity. Solidly Built. Long Life. 10 sizes—5 to 17½ bu. per hour.  
Handy to operate.  
Sacking or Wagon Box Elevator furnished.  
Circular Free  
The D. N. P. Bowsher Co., South Bend, Ind.

**STANDARD EGG a DAY**  
Great for Moulting Hens  
Makes Young Chicks Grow Fast

**Make's HENS LAY**  
WINTER AND SUMMER  
JUST FOLLOW DIRECTIONS

**RESULTS GUARANTEED**

- STANDARD HOG REGULATOR
- STANDARD PROTEXOL
- STANDARD STOCK DIP
- STANDARD FLY SHY
- STANDARD DAIRY MINERAL

### Buy Where You See This Sign

Look for this sign when you buy live stock and poultry preparations. It marks a good store—a place where you can get Standard remedies.

If your dealer doesn't handle Standard goods, write us for literature and prices.

**STANDARD CHEMICAL Mfg. Co.**  
Dept. 25 John W. Gamble, Pres. Omaha, Nebr.  
Makers of Reliable Live Stock and Poultry Preparations Since 1894



# Now is the Time to take stock of the year's dairying

Have you made any mistakes which have lessened your profits, such as:

1. Turning your cows on pasture too early.
2. Leaving them on pasture too long.
3. Getting your hay in too late.
4. Neglecting to weigh the feed consumed and milk produced by each cow.
5. Failing to feed enough grain through the Summer.
6. Not properly utilizing your home-grown grains.
7. Spending too much money for unproductive feeds.

If you've made any of these mistakes this year don't make them again in 1928. Nos. 1 to 6 are entirely up to you. But we can help you in regard to No. 7.

**Diamond Corn Gluten Meal** is one of the most productive of all feeds. Why? Because it is so high in protein of good quality, and so high in total digestible nutrients that a small or moderate amount of DIAMOND in the ration permits the inclusion of large amounts of homegrown grains and other low-priced carbohydrate feeds such as bran, middlings, hominy, etc.

Write us for circular showing how to feed DIAMOND with your homegrown grains for bigger production at smaller cost.

Ration Service Dept.

**Corn Products Refining Co.**  
17 Battery Place, New York City



## BREEDERS' DIRECTORY

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

### CATTLE



The Best is the Most Economical

It costs the same per pound to ship average beef animals to market as it does prime beef animals, yet the latter dress 10% more.

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

### Registered Guernsey Bulls

We are offering two fine young bulls ready for service at farmer's prices. These bulls are lively and straight, well-bred and from good producing dams. MEADOW-GOLD GUERNSEY FARM, St. Johns, Mich., R. 8.

### Forest Hills Guernseys

Four bull calves for sale, from 2 to 12 months old, two from A. R. dams, sire's dam's record, 634 lbs. of butter-fat in E. E. M. HOMPE, Forest Hills Farm, R. 3, Grand Rapids, Mich.

### Wallinwood Guernseys

Sons of BROOKMEAD'S SECRET KING for sale. F. W. WALLIN, JENISON, MICH.

### Langwater May Rose Guernseys

Strong in the blood of Imp. King of the May 9001. Two more young sires now ready. W. W. TERRY & SON, Remus, Mich.

**GUERNSEYS** either sex, whose sires' dams have official records of 15-109.10 milk, 778.80 fat, 19,460.50 milk, 909.05 fat. T. V. NICKS, Battle Creek, Mich., R. 1.

**FOR** practically pure-bred GUERNSEY or HOLSTEIN calves, from heavy, rich milkers, write EDGEWOOD DAIRY FARMS, Whitewater, Wis.

**Guernsey** Dairy Heifer Calves, practically pure bred \$25.00 each. We ship C. O. D. Write L. Terwilliger, Wauwatosa, Wis.

**For Sale** —Reg. Guernsey cows and a few bull calves, sire by Imp. Coro Honor. JOHN EBELS, Holland, Mich., R. 2.

**FOR SALE** a 4 yr. old Guernsey bull, a grandson of the former Michigan State Champion. Taylor & Jager, phone 17, Douglas, Mich.

### SERVICEABLE AGE

**REGISTERED HOLSTEIN**  
Bull Calves at prices the owner of a small herd can afford to pay. The sire of many of these calves is a Son of the highest record (30 lb.) two-year-old daughter of Creator. His sire is King Segis Alcatraz Prilly, an undefeated Show Bull with 70 A. R. daughters. Others sired by a 5 times 1200 lb. Champion Bull, the famous K. P. O. P. breeding.  
Bred cows and heifers served by these sires are available for foundation stock.

### RED ROSE FARMS DAIRY

Northville, Michigan  
Telephone: 344  
Reference: Northville State Savings Bank

**FOR SALE** \$1,200 buys eight Reg. Holstein heifers; four will freshen soon, other four are younger; all are sired by our 33 lb. bull. E. A. ROHLFS, Akron, Mich.

### JERSEY BULLS

World Record Breeding, from R. of M. dams making up to 600 lbs. butter-fat by R. of M. sire. J. K. HATFIELD, Remus, Mich.

**Registered Jersey Bull** cheap for quick sale, solid color, black points, good breeding, right in every way. C. F. JACKSON, Ada, Mich.

**For Sale** Choice Jersey Bulls, grandsons of Sybil's Gamboe of Whitehall. SMITH & PARKER, Howell, Mich., R. No. 4.

# Live stock AND DAIRYING

## COLD WATER DECREASES DAIRY PROFITS

ONE of the most successful dairy-men that I have ever known always warmed the drinking water for the milk cows. He was a firm believer that clean, fresh water of a medium temperature was absolutely essential for successful milk production during cold weather.

One day I asked the old gentleman why he was so finicky about warming the water for the dairy cows. "Cold water chills the cow's body," he remarked, "and more heat and energy must then be available in order to bring the low temperature of the cold water to the optimum degree of warmth." He continued: "It is more economical to warm the water by a stove or tank heater than to permit the animal, which is not properly equipped, to do it."

Several years have passed since I appeased this farmer by taking the chill from all water drunk by his dairy cows during the zero weather. However practical experience has gone this wise old fellow one better and proved conclusively to me that dairy cows would not only require more feed if the drinking water was not warmed in cold weather, but also will not drink sufficient water to provide for high milk flow.

One of my friends thought that it did not matter whether the water for the dairy cows was warmed or not. Recently he told me that he was purchasing a tank heater because he was positive that "removing the chill" from the stock's water would more than pay in the long run.—H. O. H.

## SWEET CLOVER POISONING

Please advise in regard to sweet clover as a hay. Some say it is poisonous to cows and horses. Am going to seed my wheat ground. What kind of sweet clover should I sow, the white or the yellow? How much should I sow to the acre?—W. S. P.

There have been a few cases of sweet clover poisoning from the feeding of sweet clover hay in this state and quite a number of cases in Minnesota and the Dakotas. When the amount of sweet clover hay fed in this state is considered, the number of cases have not been very numerous. On the other hand, there is no very satisfactory way of determining just when the trouble is going to appear, consequently there is more or less danger in feeding sweet clover hay. We feel that alfalfa makes a more satisfactory hay crop due to the better quality of hay secured and the ease of curing.

Sweet clover makes a very satisfactory pasture crop and the acreage is increasing quite rapidly for this purpose. It is also proving a very satisfactory soil improvement crop. I would suggest that you use the white biennial strain since it will produce pasturage over a longer period of time and has a larger root system for soil improvement.

It is customary to sow fifteen pounds of scarified seed per acre. When wheat is used as a nurse crop, it is advisable to seed sweet clover in the early spring, as soon as the seed can be covered with the spike tooth harrow.

## WHERE TO GET INFORMATION ON FEEDING COWS

Can you tell me of some pamphlet or booklet that treats upon the amount of feed that should be fed to milking cows? I am informed that a cow giving a certain number of pounds of milk requires a certain number of pounds of feed, and the

amount of food given her depends upon the amount of milk the cow gave. Please advise.—H. W.

There are many sources of very reliable information on this all important question for the dairyman.

Our own experiment station at East Lansing has several bulletins on this subject that can be had for the asking. Simply write for them.

Prof. Hecker's work on this subject is the most thorough and complete, and with all, the most scientific of any produced in this country. Write the Minnesota experiment station for Hecker's work on feeding the dairy cow.

The Dairy Division of the Department of Agriculture at Washington also will furnish valuable and up-to-date information on this subject.

If you want to study the subject from the foundation up, get all there is to it, get Prof. W. A. Henry's book on Feeds and Feeding. This book treats the subject fully and is considered authority all over the world. Write the Wisconsin Experiment station. The book costs \$2 or \$2.50.

## CULL BEANS FOR BREEDING EWES

Would it harm breeding ewes or the spring lamb crop if they were allowed access to a field where there are several acres of unharvested beans?—Reader.

There is nothing in the nature of cull beans that would be harmful to the sheep or the lamb crop unless the sheep are injured by eating too much grain or concentrated food. Animals not used to grain sometimes are injured by eating too much when they have free access to it but they would be more apt to injure themselves eating corn or barley than from eating beans.

No one can tell whether your sheep will eat enough of these beans to injure them or not. The probabilities are that they will not. It looks safe to turn them in but they should be watched carefully at first and not allowed to eat too much. If they attempt to gorge on the beans only allow them to eat for a short time the first day. They will soon get accustomed to them so there is little or no danger of their over-eating. This is especially true owing to the fact that they have good pasture closely adjacent.

## COMPARATIVE VALUE OF RED DENT CORN

Please tell me whether there are any tests recorded to show whether Northwestern dent corn (red corn) has the same feeding value as yellow dent. I understand yellow corn contains certain vitamins not found in white corn, and would like to know how red corn compares.—L. E. B.

The writer can find no tests to determine the comparative value of red dent corn. Tests have been made that seem to show that yellow dent is somewhat superior to white dent where animals have been fed for an extended period of time. The conclusion was that the yellow dent contained vitamins that were absent in the white, because when other food was supplied containing sufficient vitamins the superiority of the yellow dent disappeared.

We have no right to draw conclusions but it would seem that the presence of coloring matter has some indication of the presence of vitamins, as for instance, the green coloring matter of the leaves of plants always denotes vitamins in those plants. Reasoning from this it might not be presumptuous to reason that red corn contained vitamins as well as the yellow.



## Lump Jaw

The Farmers' old reliable treatment for Lump Jaw in Cattle.

**FLEMING'S ACTINOFORM**  
Sold under a positive guarantee since 1890. Your money refunded if it fails. Send \$2.50 for a bottle postpaid.

**FISTULA AND POLL EVIL** — 10,000 horses successfully treated each year with Fleming's Fistoform. \$2.50 per bottle postpaid.

Book on "Home Treatment Livestock Diseases" Free. Our veterinarians prescribe free for ALL cases whether Fleming Remedies are indicated or not. Write for Book and FREE advice.

**FLEMING BROS.,** 106 Union Stock Yards, CHICAGO

### THICK, SWOLLEN GLANDS



which make a horse wheeze, roar, have thick wind or choke-down can be reduced with Absorbine. Also other lumps or swellings. No blister, no hair gone, and horse kept at work. It is economical. At druggists, or \$2.50 postpaid.

Horse book 3-S free.

A thankful user says: "Completely removed flesh growth on gland about 7 inches diameter. Sincerely thank you for good advice and Absorbine."

**ABSORBINE**  
TRADE MARK REG. U.S. PAT. OFF.  
W. F. YOUNG, Inc. 468 Lyman St., Springfield, Mass.

### CATTLE

## AUCTION SALE

13 Registered Jersey Cows and Heifers and 2 Bull Calves,

**TUESDAY, DECEMBER 6th**

at the farm at east end of State St., St. Johns, Mich. Not a reduction sale, but my entire half of the Huey and Scott herd. The entire herd was TB tested this September, the third successive test, with no reactors found. These animals and their pedigrees may be inspected at the farm. The fine farm is also offered for sale or rent.

**H. B. HUEY, St. Johns, Mich.**

### AUCTION SALE

Of Extra Good Dairy Cows and Heifers, on **WEDNESDAY, DECEMBER 7th, 1927**

at 12:30 SHARP rain or shine. Will sell at the Mills Farm, 7 miles southeast of Port Huron, on Gratiot Turnpike. 50 extra good dairy cows and heifers, mostly Holsteins, some fresh, the others due soon. One extra good Registered Holstein cow, due Dec. 20th, bred to registered bull One Guernsey bull, one Holstein bull. All tubercular tested. Delivery trucks on ground. **TERMS** one year's time. **KARL WOHLBERG, Proprietor.**

**Holstein HEIFERS** from high producing dams, some registered and some high grade, most any age desired. Priced very reasonable. Good bulls ready for service always on hand. **B. B. REAVEY, Akron, Mich.**

**FOR SALE** A yearling Holstein Bull, good type, sired by a 36-lb. bull. Dam with good C. T. A. record. **BEN L. SMITH, Rives Junction, Mich.**

## Stockers & Feeders

Calves, Yearling & Two; Hereford Steers & Heifers. Beef Type, dark reds, good grass flesh, most all bunches deboned, each bunch even in size and show good breeding. Choice Herefords are usually market toppers when finished. Few bunches T. B. tested. Will sell your choice from any bunch. State number and weight you prefer 450 to 1000 lbs.

**Van D. Baldwin, Eldon, Wapello Co., Iowa.**

### "Claradale Milking Shorthorns"

Young bulls and bred heifers, priced for quick sale. Dutchess breeding, high milk and test records. Herd under state and Federal supervision. Sixty days retest allowed. Your success is our success. **F. W. JOHNSON & SONS, Box 26, Custer, Mich.**

**Eight Head** for sale, five cows, two heifers and bull calf, six months old. **F. J. WITMER, Howard City, Mich., R. 2.**

**Red Poll Cattle** Oxford & Tunis sheep, Yorkshire pigs. **E. S. CARR, Homer, Mich.**

**Red Shorthorn Bull** one year old, for sale. **W. E. MORRIS, Flint, Mich., R. 5.**

**For Sale** Red Shorthorn Bulls, 14 months, sired by Laddie Boy by Roan Archer. **FAIRFIELD FARMS, R. 3, Zeeland, Mich.**

### HOGS

**Reliable Berkshires** having both size and quality, strong backs and feet. Spring boars \$35. F. O. B. with papers. Order from this ad, satisfaction guaranteed. **W. H. EVERY, Manchester, Mich.**

### DUROCS

Spring and yearling boars. Open gilts. Premier Michigan Breeder at State Fair.

**LAKEFIELD FARMS, Clarkston, Mich.**

**DUROCS** Spring boars, open and bred gilts. Fall pigs. Quality of the best. Priced to sell. Write **NORRIS STOCK FARM, Casnovia, Mich.**

**Duroc Jersey** Boars and Gilts of spring farrow with size, type and quality. Write for particulars, or better, come and see them. **F. J. DRODT, Monroe, Mich.**

**DUROC JERSEY** spring and fall boars of popular blood lines. Write or come and see them. **Jesse Bliss & Son, Henderson, Mich.**

**DUROCS** big husky March boars. Sensations and Cols. **S. V. PHILLIPS & SON, Charlotte, Mich.**

**FOR SALE** Duroc Jersey boars, gilts and fall pigs, both sex. **CHAS. A. BRAY, Danville, (Ingram Co.), Mich.**

Additional Stock Ads. on page 555

### HORSE POPULATION DECREASES

I HAD a funny experience a few days ago. A farm hand who is employed more than a mile from here asked me if he could borrow a buggy to drive to town Saturday evening. I inquired if the farmer for whom he worked did not have a buggy and he replied in the negative. I then asked about other neighbors and he said that none of them had a buggy. How times have changed! A few years ago every one of these farmers would have prided himself on his carriage, his buggy, his cutter and probably on his double carriage as well. I saw a fine spring cutter sell at an auction this fall for one dollar.

I recently secured from my friend, Verne E. Church, Federal agricultural statistician for Michigan, some interesting figures showing the trend in the number of horses and mules for Michigan and the United States as a whole. These figures indicate a gradual decrease in the horse population of our state and nation, but a slight increase in the state and national mule totals.

On January 1, 1927, there were 444,000 horses in Michigan as compared to 605,509 in 1920, and 610,033 in 1910. For the whole United States there were 15,279,000 horses on January 1, 1927, as against 19,767,161 in 1920 and 19,833,113 in 1910. The Michigan mule totals were 8,000 in 1927, 5,884 in 1920 and 3,700 in 1910. For the United States, the figures for mules were 5,734,000 in 1927, 5,431,391 in 1920 and 4,209,769 in 1910.—S. P.

### DIRECT SALES OF LIVE STOCK

THE increasingly large volume of direct buying of live stock instead of purchasing through the public markets is giving the Department of Agriculture at Washington some concern. Secretary of Agriculture Jardine says that public yards are receiving fewer and fewer live stock because of interception through direct buying. Live stock is being bought directly on prices fixed at public yards, and consequently the yards need an ample supply in order to reflect a fair price. "We are studying the problem but don't know yet just how many are needed for this purpose. However, any order relative to fixing the number of live stock in a public yard, such as a requirement that traders make all purchases through that yard, calls for congressional legislation."

### BEEF CATTLE NOTES

THE Detroit Retail Meat Association is urging housewives to eat less beef and more such meats as pork and lamb. On the surface this may seem a wise move, but a careful study of the question forces the conclusion that recommendations of this sort tend further to upset the balance between production and consumption of these products.

"Through the efforts of the Michigan Beef Producers Association, the one-half rates on shipping pure-bred stock in and out of the lower peninsula of Michigan will remain in effect and not be discontinued at the end of this year."

From a number of persons have come the suggestion of holding a Detroit Fat Stock Show. Nothing definite has been decided upon to date, but during the coming months a strong campaign will likely be undertaken to start such a show, probably in 1928.

The marking of prime and choice beef by the Government is increasing from month to month as rapidly as can be expected.

If the ice could be removed from the sea around the North Pole, the air in midwinter would be about 27 degrees Fahrenheit instead of being 30 degrees below zero.



## Lost! \$78.00 A Year By Poor Separators De Laval Proved It!

IN ORDER to show exactly how much money is being lost by poor separators De Laval Agents in 17 states during the past year held hundreds of public tests, in which the skim-milk from some separator in each community was run through a new De Laval and separated again.

In all these tests De Laval Separators never failed to recover butter-fat from such skim-milk. The butter-fat recovered in this way was immediately weighed and tested at the local creamery or cream station, and varied in value from a few cents to over a dollar.

The average results from all the tests showed that the separators from which De Laval's skimmed the skim-milk were losing butter-fat at the rate of \$78.00 a year.

**50,000 People Saw These Tests**  
More than 50,000 people attended these demonstrations and many of them were amazed at the separating losses revealed and asked for tests to be made on their own separators.

In view of the fact that no effort was made to secure skim-milk from the poorest separator in each community, and that the tests were conducted

under the observation of disinterested people entirely in the open and above board, they reveal a general condition.

It has been conservatively estimated that 25% of all separators in use today are wasting large amounts of butter-fat—enough to pay for a new De Laval in a short time. Is your separator in this class? To make sure it isn't, try a new De Laval.

**Trade In Your Old Separator on A New De Laval**

The new De Laval's are the best separators ever made—they skim cleaner, run easier, are more convenient to operate and last longer than any others. They have many new features you will appreciate. Liberal trade allowances on old separators of any age or make made on new De Laval's, which are also sold on easy terms or installments. See your De Laval Agent or send coupon for full information.

### MAIL COUPON

THE DE LAVAL SEPARATOR CO., Dept. 4621  
165 Broadway, New York  
600 Jackson Blvd., Chicago  
61 Beale St., San Francisco

Please send me, without obligation, full information on \_\_\_\_\_  
Separator ☐  
Milk ☐  
check which

Name \_\_\_\_\_  
Town \_\_\_\_\_  
State \_\_\_\_\_ R.F.D. \_\_\_\_\_ No. Cows \_\_\_\_\_

## De Laval Cream Separators and Milkers

I will condition a Horse or Cow in twelve days  
Put flesh on its bones. Give it life and vigor. Can add 50 per cent to looks and value. Satisfaction guaranteed or no pay. Send postal for free offer.  
**P. M. FAUST, BRYN MAWR, PA.**

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

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EXPERIMENT stations have proved by actual test that beef cattle gain four pounds extra per day when a mineral supplement is added to regular rations. This is because all farm rations are low in phosphorus and lime, the two elements making up 90% of the mineral matter of the body.

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supplies these needed minerals in exactly the right proportions and in the most digestible form. And it costs you nothing because it makes the ration more effective and thus makes less feed do more work. Contains only phosphorus, lime, salt and iodine, and costs less than half the price of complex mixtures.

**INTERNATIONAL AGRICULTURAL CORPORATION**  
MANUFACTURERS OF HIGH GRADE FERTILIZERS  
431 Main St., Cincinnati, O. Dept. 20  
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# THE LATEST MARKET REPORT



## GRAIN QUOTATIONS.

Monday, November 28

### Wheat.

Detroit.—No. 2 red at \$1.39; No. 2 white \$1.38; No. 2 mixed at \$1.37.  
Chicago.—December \$1.28; March \$1.32½; May \$1.34½.  
Toledo.—Wheat, No. 2 red at \$1.37@1.38.

### Corn.

Detroit.—No. 2 yellow 95c; No. 3 yellow 93c; No. 4 yellow 91c.  
Chicago.—December 88c; March 92½c; May 95c.

### Oats.

Detroit.—No. 2 Michigan 56c; No. 3 white 54½c.  
Chicago.—December 49½c; March 52; May 53½c.

### Rye.

Detroit. No. 2, \$1.16.  
Chicago.—December \$1.04½; March \$1.07½; May \$1.08½.  
Toledo.—\$1.15.

### Beans.

Detroit.—Immediate and prompt shipment \$5.30 f. o. b. shipping points.  
New York.—Pea domestic at \$6.00@ \$6.35; red kidneys \$8.00@8.50 to the wholesalers.  
Chicago.—Spot navy beans, Michigan choice, hand-picked, in sacks at \$5.90; dark red kidneys \$8.00.

### Barley.

Detroit.—Malting 86c; feeding 81c.

### Seeds.

Detroit domestic seeds.—Cash clover \$17.80; December \$17.90; February \$18.00; March \$18.00; cash alsike \$16.50; December alsike at \$16.55; January alsike \$16.75; February \$16.95; March \$17.10; timothy at \$2.05; December \$2.05; March \$2.20.

### Hay.

Detroit.—No. 1 timothy at \$14.00@ \$15.00; standard \$13.50@14.00; No. 2 timothy \$11.00@12.00; No. 1 light clover, mixed \$13.50@14.50; No. 1 clover \$12.50@13.50; wheat and oat straw \$11@12; rye straw \$12@13; alfalfa hay, No. 2, at Chicago, \$16@27.

### Feeds.

Detroit.—Winter wheat bran at \$38; spring wheat bran at \$37; standard middling at \$38; fancy middling at \$42; cracked corn at \$42; coarse corn meal \$40; chop \$39 per ton in carlots.

### WHEAT.

Wheat prices advanced 8 cents a bushel from the year's low point a month ago, with a two-cent setback in the last few days. The strengthening factors were fear as to the Argentine outcome, downward revisions in the world supply estimates, less pressure than expected from Canadian offerings and some improvement in domestic merchandising conditions. The easier tone in the last few days has been due to indications of a good crop in the Argentine, and cheaper offers of Argentine wheat for later shipment.

Based on reports received to date, the United States Department of Agriculture estimates the world crop, excluding Russia and China, at about 100 million bushels more than last year. This increase may be largely offset by reduction in the quantity of

millable wheat in certain European countries and Canada. If this is true, it is possible that world prices have fully discounted the situation. The market may relinquish temporarily some of the advance made in the last month, but new low prices are not likely to be seen.

### RYE.

Rye exports have fallen off recently, but some further export sales are reported from time to time and market receipts are declining, so that supplies at terminals promise to remain small right along.

### CORN.

Corn prices have had a fair rally in the last two weeks. Reports that husking returns are beneath expectations are more numerous than those showing an increase and some reduction in the crop estimate in December is expected. Primary receipts have been moderate and the visible supply decreased last week. It is much above normal for this season of the year but is smaller than at the same time a year ago.

### OATS.

Oats prices have shown no independent trend. Primary receipts remain about equal to the commercial demand, so that the visible supply has remained practically the same for the last month.

### BEANS.

The pea bean market is holding steady with some stocks being held for more money. Red kidneys are easier and are tending lower.

### SEEDS.

Business in seeds is small and little activity is expected to develop before the middle of January when the demand for spring planting usually begins. Alsike seed was marked sharply higher last week, bearing out the predictions of many dealers who believe that prices will approach red clover seed before the end of the season. Farmers have sold both alsike and

red clover seed a little more freely at the improved prices. Timothy prices have held steady although trade is very slow. Dealers believe that the seed is relatively cheap and are inclined to build up their stocks.

### FEEDS.

Feed prices strengthened further last week when dealers bought ahead of actual requirements, anticipating their winter needs. Strength in grain prices was also responsible for the improvement in prices of feeds. Supplies of feed grains and feeds this season are about the same as a year ago, according to the latest estimates of the Department of Agriculture, and hay is much more plentiful. The principal change in by-product feed supplies is the probable reduction of nearly 30 per cent in cottonseed meal.

Chicago.—Bran, \$31.50; standard middlings, \$32; hominy feed \$34; gluten feed, \$35.70; old process oil meal, 34%, \$49; tankage, \$70; cottonseed meal, 43%, \$46.50.

### HAY.

The usual winter demand for hay has been delayed this year by the unseasonably moderate weather and the liberal supplies of local forage in many sections. Receipts at most markets last week were not large, but were fully equal to or in excess of current needs and prices weakened somewhat. The average prices of top grades of timothy and prairie hay are from \$4 to \$5 lower than at the corresponding time a year ago. Limited offerings of the better grades of alfalfa hay have strengthened prices on this hay and No. 1 alfalfa is selling at about the same price as in 1926.

### EGGS.

Fresh eggs soared to a new high price for the season last week under the stimulus of moderate receipts, good-sized withdrawals from storage stocks and a continuance of the satisfactory home consumptive trade. As yet, there is no evidence of any increase in the lay, and with cold

weather just arriving over part of the country, there is little chance of any marked gain in supplies of fresh laid eggs for several weeks.

Consumptive demand for poultry has suffered from the unseasonably warm weather and the pre-Thanksgiving trade was disappointing in many cases. Fancy turkeys, fowls and chickens were not overplentiful and brought satisfactory prices. Receipts of dressed poultry at the four leading markets were not as large as in recent years.

Chicago.—Eggs: fresh firsts, 42@47c; extras, 54@55c; ordinary firsts, 32@40c; dirties, 22@30c; checks 20@28c. Live poultry: Hens, 20c; springers, 22c; ducks 19c; geese, 20c; turkeys, 28c.

Detroit.—Eggs: Fresh candled and graded, 48c; storage, 35c. Live poultry: Heavy springers, 24c; light springers, 23c; heavy hens, 25c; light hens, 23c; roosters, 16c; geese, 20c; ducks, 20@21c; turkeys, 42c.

### BUTTER.

Demand for butter broadened last week as colder weather and the holiday stimulated a heavier consumption, and prices advanced. Some further shrink in the make was reported and the low point for the season has not yet been reached. Barn feeding is fairly general now, however, and dairy production should soon show some increase. Buyers generally are trading on a hand-to-mouth basis, although the market is firm at the higher prices and no immediate reaction is looked for.

Prices on 92 score creamery were: Chicago, 49½c; New York, 51½; Detroit, 41½@46c per lb. in tubs.

### POTATOES.

The usual dullness during the holidays when attention is directed to the specialty vegetables was apparent in the potato market last week. Cold weather and snows retarded shipments from North Dakota, Minnesota, Wisconsin, and Michigan, but supplies were fully equal to the demand and prices were a little lower. No marked weakness is expected, particularly since cold weather will stimulate a larger consumption of potatoes. Northern round whites, U. S. No. 1, are quoted at \$1.50 to \$1.65 per 100 pounds, sacked, in the Chicago carlot market.

### WOOL.

While mills are inclined to resist the advance in wool prices, they purchased more actively in the last week or ten days, probably reflecting some increase in demand for goods. Dealers have advanced their asking prices slightly, but Boston remains much below the level of world prices when allowance is made for the tariff. The Texas clip of fall wools has all been sold at prices ranging from 32 to 36 cents compared with 25 to 27½ cents a year ago. Further sales in Australia have been up to a parity with the advance at Wellington reported a week ago.

### GRAND RAPIDS.

Potatoes, 90c@\$1 bu; onions, 60c bu; cabbages, 60@75c bu; carrots, beets, turnips, rutabagas, 75c bu; spinach, \$1 bu; leaf lettuce, 5c lb; radishes, 40@45c doz. bunches; parsnips \$1 bu; squash, \$1.25@1.50 bu; apples, Spys and Delicious, \$3@3.25 bu; poorer, \$2@2.50; various varieties, \$1.50@2.25 bu; Kieffer pears, 75c@\$1 bu; wheat \$1.18 bu; rye, 80c bu; buckwheat, \$1.50 cwt; beans, \$4.85 cwt; chickens, 18@23c lb; fowls, leg-horns, 15c lb; heavy fowls, 20@23c lb; ducks, 20c lb; geese, 18@20c lb; turkeys, 35c lb; eggs, 50@55c doz; butter-fat, 51c lb.

### DETROIT CITY MARKET.

Apples 80@\$4.00 bu bagas, 75c@\$1.00 bu; beets, 75c@\$1.00 bu; cabbage, 40@50c bu; carrots, 60@85c bu; 50@75c doz. beets; celery, local, 25c@\$1.00 doz; eggs, wholesale, white, 65@70c doz; brown, 60@65c doz; retail, 70@80c doz; dry onions, 75c@\$1.25 bu; curly parsley, 35@40c doz. beets; 75c@\$1.25 bu; pears, 75c@\$1.50 bu; potatoes 50c@\$1.30 bu; poultry, hens, wholesale, 24@26c lb; retail, 28@30c lb; broilers, wholesale, leghorns, 19@21c lb; rocks 24@26c lb; retail, 28@30c lb; ducks, 22@25c lb; geese, 24@26c lb; turkeys, 42@50c lb; dressed poultry, 30@35c lb; ducks, 35@40c lb; geese, 30@35c lb; turkeys, 55@60c lb; horseradish, \$4.50@6.00 bu; spinach, 75c@\$1.00 bu; Hubbard squash 75c@\$1.00 bu; turnips, \$1.00@1.50 bu; 50c@75c doz. beets; butter, 65c lb.

## Live Stock Market Service

Monday, November 28

### CHICAGO.

#### Hogs

Receipts 46,000. Early market 10@15c higher, slow at advance; up on light lights and pigs; tops \$9.55; bulk good 210-300-lb. weight \$9.10@9.50; 170-200-lb. \$8.75@9.20; 130-160-lb. \$7.85@8.85; most pigs \$7.50@8.00; selected lots \$8.25; light packing sows \$8.15@8.50; light weights \$8.60@8.70.

#### Cattle

Receipts 19,000. Market fed steers steady to strong; mostly steady; she stock strong to a shade higher; bulls firm; vealers 25@50c lower; medium to good grain fed steers predominating; demand broadest for well finished heavies; several loads \$17.25@18.00; bulk fat steers \$12.00@15.00; stockers and feeders scarce, active, strong to unevenly higher; most loads cutter cows around \$5.15; some weights up to \$5.25; vealers \$12.00@13.00; to packers mostly \$12.00@12.50; outsiders \$13.50@14.00.

#### Sheep and Lambs

Receipts 20,000. Market fat lambs active, strong; stots around 15c higher; damp fleeces good wool lambs \$13.75@14.00; choice natives and fat westerners \$14.25; culls \$10.50@11.00; most sheep steady; fat ewes \$6.25; yearlings \$10.00@11.50, depending upon quality and weight; feeding lambs unchanged; choice light weight rangers up to \$14.50; 69-lb. hay fed \$14.05.

### DETROIT.

#### Cattle

Receipts 954. Market steady and strong.  
Good to choice yearlings  
dry-fed ..... \$10.50@13.75  
Best heavy steers, dry-fed 10.25@12.00  
Handy weight butchers.. 8.25@10.00  
Mixed steers and heifers. 8.00@ 9.50  
Handy light butchers .... 7.25@ 8.75  
Light butchers ..... 6.00@ 8.00  
Best cows ..... 7.00@ 8.00  
Butcher cows ..... 5.50@ 6.50  
Cutters ..... 4.75@ 5.25  
Canners ..... 4.25@ 4.50  
Choice light bulls ..... 6.00@ 7.75

Bologna bulls ..... 6.00@ 7.25  
Stock bulls ..... 5.00@ 6.25  
Feeders ..... 6.50@ 8.25  
Stockers ..... 6.25@ 7.75  
Milkers and springers... \$65.00@110.00

#### Calves.

Receipts 703. Market steady.  
Best ..... \$15.50@16.00  
Fair to good ..... 7.50@15.00

#### Sheep and Lambs.

Receipts 3,056. Market steady.  
Best lambs ..... 14.00@14.25  
Fair lambs ..... 11.00@12.50  
Light to common lambs.. 6.50@10.00  
Fair to good sheep..... 5.50@ 6.75  
Buck lambs ..... 7.25@12.25  
Culls and common ..... 2.00@ 3.00

#### Hogs.

Receipts 2,844. Market slow; around 15c higher.  
Mixed hogs ..... \$ 9.40  
Pigs ..... 8.25  
Light lights ..... 8.85  
Roughs ..... 8.00@ 8.25  
Good yorkers ..... 9.25  
Stags ..... 7.25  
Extreme heavies ..... 8.00@ 8.50

### BUFFALO.

#### Hogs

Receipts 14,400. Hold over 220; 25@40c up since Friday; 220-250-lb. \$10.00@10.10; bulk 180-210-lb. \$9.85@ \$9.90; light lights \$9.00@9.60; pigs \$8.25@8.50; packing sows \$7.75@8.25.

#### Cattle

Receipts 2,500. Market on steers 16@25c higher, others strong; tops higher; eleven 1,320-lb. steers \$16.25; yearlings \$13.25@15.00; bulk light weight medium steers \$9.50@10.85; heifers \$7.50@9.50; fat cows \$5.50@ 7.25; cutters \$4.00@5.00; bulls \$6.00@ \$7.50.

#### Calves

Receipts 1,700. Market steady with Friday; tops \$16.50; culls and common \$9.50@12.50.

#### Sheep and Lambs

Receipts 11,800. Market 25c higher; under grades 50c up; tops lambs \$13.50; culls and common \$10.50@ \$11.50; fat ewes \$5.50@7.00.

## Hotel Fort Shelby

Lafayette and First  
Detroit

Whether your choice be one of the many very comfortable rooms at \$2.50, \$3 or \$4 a day, or one of the higher-priced larger rooms with a view of the city, river and Canadian shore, you will here enjoy a particular sense of value. Every room has a Servidor.

[ Garage in connection. Cars called for and delivered without charge. ]



## COUNTY CROP REPORTS

**Macomb County**—Fall work is practically completed. Cows are selling at \$150@175 at sales. There are fewer auctions than last year. Farmers have plenty of silage, hay, and corn for feed. Wheat brings \$1.20; oats 47c; corn 80c; eggs 55c; milk \$2.90 for 3.5 test.—S.

**Branch County**—Weather has been rather wet for husking and shredding corn. Dairying is on the increase and about the usual number of cattle is on feed. There are fewer sheep and lambs in feed lots this year. Potatoes bring \$1.00 per bushel; cream 48c; eggs 40c; hogs \$8.50; veal \$13.00. There is an increase in the number of colts raised.—N. S.

**Eaton County**—More fall plowing has been done this year than usual. There is plenty of hay in farmers' barns but other feeds are less plentiful than other years, corn particularly being scarce. Not much marketing being done just now. Wheat is quoted locally at \$1.22; oats 47c; beans \$4.90 @ \$5.00; eggs 45c; butter 50c.—B.

**Huron County**—Probably 90% of the fall plowing has been done, and other farm work is well cared for. Pastures have been extra good so that live stock is going into winter in good condition. There is plenty of silage and rough feed. Beans are bringing \$5.15 and are of good quality. Wheat is \$1.20; oats 48c; barley \$1.50; apples \$1.00@2.00; milk \$2.35 at condensary; eggs 40c; poultry 14@18c.—A. M.

**Clare County**—Live stock is looking good. More sheep are being kept than formerly. There was an abundance of hay but comparatively little corn last season. Rye brings 85c; butter 50c; eggs 42c; poultry 17c; oats 35c.—S. S.

**Alcona County**—Live stock is looking good. The number of dairy cattle is increasing. There is plenty of hay but the supply of grain may be a little short. Fall pastures have been good and weather favorable for completing the fall work. Wheat is selling at \$1.25; beans \$4.85; oats 70c; potatoes 75c; butter-fat 44c; eggs 40c.—G. G.

**Bay County**—Dairy cattle are scarce and very high, bringing from \$125 to \$150. Hogs are more plentiful. There is an abundance offered. Sugar beets and chickory harvest are keeping the farmers busy. Lots of fall plowing is being done. Wheat and rye look fine. Wheat brings \$1.18; corn 90c; oats 47c; rye 93c; barley \$1.60 per cwt; buckwheat \$1.80; beans \$5.00; hay \$14.00@16.00; potatoes \$1.25; butter-fat 48c; eggs 42c. Farmers are doing a lot of fall work.—W. D.

## FOR SALE USED MACHINERY

15-30 McCormick Deering tractor, 15-27 Case, 18-32 Case, 15-30 Hart Parr, 28x46 McCormick Grain thresher new in 1927, 20x32 Belle City, 26x46 Case, 17 22 McCormick Deering hay press, 17-22 Adco, 17-22 Ann Arbor, 6 & 8 roll McCormick huskers, 8 roll Advance.

Buy used machinery and save money

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Lacking barn room and for other reasons, we are offering up to 20 pure-bred Holstein-Friesians at private sale. Eight two year olds and running up to 11 years. Four bred heifers, 3-15 months heifers and two 6 months bulls, great grandsons of K. P. O. P. and 37th. Beets Piebe Segis 497945, whose seven nearest dams average 1,200 pounds butter, in service in this herd. Records of performance for all females old enough. Herd fully accredited. These animals are priced to sell.

J. H. CHAMBERLAIN,

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No better protection from cold winter blizzards. Long years of wear—fully guaranteed. Ship us your cattle and horse hides and other raw furs; we will convert them into fur coats and robes at considerably less than the usual prices. We also make and have in stock a full line of ladies' fine fur coats. Buy from us and save money. Catalogs and other prices gladly sent on request.  
Hillsdale Robe & Tanning Co., Hillsdale, Mich.  
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A large selection at all times of stocker and feeding cattle. Special attention given to filling orders. Write F. E. BERRY COMPANY, South St. Paul, Minn.

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**O. I. C. HOGS on time** Write for Originators and most extensive breeders.  
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**O. I. C's.** Good last spring pigs, not skin also fall pigs, recorded free. OTTO SCHULZE & SONS, Nashville, Mich.

**O. I. C's.** A few choice boars of May farrow at farmers' prices. C. J. THOMPSON, Rockford, Mich.

**Prize-Winning Chester Whites** Have a few spring pigs either sex. Can furnish a few not skin. I have bred and showed more Grand Champions at Michigan State Fair in past seven years than all other breeders. NEWMAN'S STOCK FARM, Marietta, Mich.

**Choice Poland China Boars** ready for service. Cholera immuned. WESLEY HILE, Ionia, Mich.

**Big Type Poland Chinas** Size and quality. Choice spring boars. See them before you buy. C. H. Ellison & Son, Mason, Mich.

**LARGE TYPE POLAND CHINAS** Spring Pigs, either sex for sale. Also Brown Swiss Bulls. A. A. Feldkamp, R. No. 2, Manchester, Mich.

**CHOICE POLAND CHINA** boars and gilts of popular blood-lines. Come and see them or write. E. A. CLARK, Breckenridge, Mich.

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20.....	.60	4.80	36.....	2.88	8.64
21.....	.63	5.04	37.....	2.96	8.88
22.....	.66	5.28	38.....	3.04	9.12
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**FOR SALE—139 acres**, good buildings, clay loam soil, flowing well, close to town. Priced to sell. Can make terms on alfalfa seed production basis. E. G. Storm, Onaway, Mich.

**FOR SALE—157 acres**, Eaton County, soil and location ideal. Good house, large barn, only half mile from high school. H. E. Parmelee, Wayland, Mich.

**VIRGINIA FARMS**—size, prices, and terms to suit. A. L. Adamson, 913 Hull Street, Richmond, Va.

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**Poland Chinas** Extra large spring boars and gilts. Also weanling pigs. JAMES G. TAYLOR, Belding, Mich.

**A FEW** good Hampshire spring boars at a bargain. Place your order for bred gilts. JOHN W. SNYDER, St. Johns, Mich., R. 4.

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## 700 Breeding Ewes

**FOR SALE**—200 choice black faced yearling ewes. 500 choice black faced ewes yearlings, 2s, 3s and 4 year olds, mixed. Prices reasonable. Write or wire us for further information. ALMOND B. CHAPMAN & SONS, So. Rockwood, Mich. Only 25 miles south of Detroit, Mich., on motor bus and car lines.

## Shropshire and Oxford Rams

Lambs, yearlings and two year olds. They are a type well grown lot. Some have won at good fairs. We guarantee satisfaction. LAKEFIELD FARMS, Clarkston, Mich.

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Choice rams and ewes. Ewes are being bred to an imported Buttar ram. D. L. CHAPMAN & SON, So. Rockwood, Mich.

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500 choice Delaines 1 to 3 yrs. old, the big husky kind. D. L. CHAPMAN & SON, So. Rockwood, Mich.

**If You Want** reliable information in regard to Karakul sheep, write F. PERRY, Davison, Mich., Secty National Karakul Fur Sheep Breeders' Registry Association.

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**A FEW** extra good registered yearling Shropshire Rams, priced right. Flock Est. 1890. C. LEMEN & SONS, Dexter, Mich.

**BRED EWES** Lincolns, Cotswolds, Karakuls, Tunis and Hampshires, also rams. LEROY KUNEY, Adrian, Mich.

**For Shropshire Ewes** bred, and ram lambs, call on DAN BOOHER, Ewart, Mich., R. 4.

## HORSES

## 30 Belgians at Auction

December 13. Send for catalog. ROTH BROTHERS, Morton, Illinois.

**Wanted** Belgian horses in exchange for first class Angus cattle; best families, good individuals. Box 128, Michigan Farmer, Detroit.

**WANTED**—To hear from owner of land for sale for fall delivery. O. Hawley, Baldwin, Wis.

## MSCELLA NEOUS

300 UNRULED LETTER HEADS and 300 good envelopes, all neatly printed as wanted for Two Dollars, postpaid. Money back if wanted. Cards, shipping tags, statements, etc., equally low prices. The Braytons, Freeport, Michigan.

**AUTO PARTS**—Radiators, Heads, Blocks, Transmissions, Drive Shafts, Rear Ends, Wheels, Bearings, good as new, half price or less. Satisfaction guaranteed or money refunded. Rocks Auto Parts, 12315 E. Jefferson Ave., Detroit, Mich.

**VIRGIN WOOL YARN** for sale by manufacturer at bargain. Samples free. H. A. Bartlett, Harmony, Maine.

**FISTULA HORSES** Cured \$5. Pay when well. Chemist, Barnes, Kansas.

**ALFALFA HAY**—also alfalfa and clover mixed, baled. Leo J. Davis, 2728 Baker St., Detroit.

## EDUCATIONAL

**BIG PAY JOBS OPEN** in auto and tractor work. I'll train you in a few weeks so you can earn \$35.00 to \$75.00 a week to start. Qualify as an expert and make \$100 to \$200 a week or operate your own garage or service station. No books—no printed lessons. Work with real tools and real equipment. Age no barrier. Little schooling needed. Write today for big free auto book and remarkable tuition offer, which includes board and railroad fare to Cincinnati or Cleveland. Investigate! This is the opportunity of a lifetime. Write today—a postal will do. McSweeney Auto Schools, 31-TS McSweeney Building, Cincinnati, Ohio, or Cleveland, Ohio.

## WANTED

**WANTED**—Standing timber of all kinds. Good prices. Chas. L. Borch, Pleasant Ridge, Detroit, Mich.

## FOXES

**REGISTERED** Alaskan Blue and Silver Foxes. We start, advise, help you. Booklet free. Breeder Agents wanted. Six bank references. Cleary Bros. Fox Farms, Seattle, Wash.

## PET STOCK

**FERRETS**—December prices. Yearling females, special rat catchers, \$5.00 each; Young stock, Females \$5.00, males \$4.75. Will ship C. O. D. Instruction book free. Levi Farnsworth, New London, Ohio.

**FREE DOG BOOK**—Polk Miller's famous dog book on diseases of dogs. Instructions on feeding, care and breeding with symptom chart, 48 pages. Illustrated. Write for free copy. Polk Miller Products Corp., 1022 W. Broad St., Richmond, Va.

**RABBITS**—Make Big Profits with Chinchilla Rabbits. Real money makers. Write for facts. 892 Conrad's Ranch, Denver, Colorado.

**COONHOUNDS**, Combination Hunters, Foxhounds, Champion Rabbithounds. Catalogue, photos free. L. J. Adams, Ramsey, Illinois.

**HUNTING HOUNDS**—all kinds. Catalogue free. Kaskaskennels, W. D. 23, Herrick, Illinois.

## MATTRESSES

**MATTRESSES** made any size, low factory prices. Catalog free. Peoria Bedding Company, Peoria, Ill.

## FRUIT TREES AND NURSERY STOCK

**PEACH TREES**, \$5 per 100 and up. Apple Trees, \$7.50 per 100 and up. In large or small lots direct to planters, by freight, parcel post, express. Plums, pears, cherries, grapes, nuts, berries, pecans, vines; ornamental trees, vines and shrubs. Free catalog in colors. Tennessee Nursery Co., Box 125, Cleveland, Tenn.

## SEEDS

**CHOICE ADAPTED SMALL GRAIN AND BEANS**—Improved American Banner wheat, Wolverine oats, Improved Robust beans. A. B. Cook, Owosso, Mich.

## TOBACCO

**GUARANTEED HOMESPUN TOBACCO**—Chewing, 5 pounds, \$1.25; 10, \$2. Smoking, 10, \$1.50. Pipe Free! Pay postman. United Farmers, Bardwell, Kentucky.

**HOMESPUN TOBACCO**: Chewing 5 lbs. \$1. Cigars, Twists, Smoking 5 lbs. 75c. Pay when received. Pipe free. Farmers Union, A5, Paducah, Ky.

## POULTRY

**WHITE LEGHORN** eggs and chicks—big discount if ordered now for spring shipment. Sired by 200 to 225 egg males. Egg bred 28 years. Winners 20 egg contests. Shipped C. O. D. Catalog, special price bulletin free. Thousands of pullets, hens, cockerels at low prices. George B. Ferris, 934 Union, Grand Rapids, Michigan.

**BABY CHICKS**—You can buy your early hatched Michigan Accredited chicks right here at home. First hatch January 15. Also booking orders now for spring delivery at special discount. Send for catalog and prices. Brummer-Fredrickson Poultry Farm, Box 28, Holland, Michigan.

**LOOK!** 100,000 chicks 9c up, 20 varieties. Using many 200 to 312 egg record bred ROP cockerels. Send for free catalog giving big early order discounts. Lawrence Hatchery, Grand Rapids, Mich.

**WHITTAKER'S REDS FOR FLOCK IMPROVEMENT**. Both Combs. Michigan's greatest color and egg strain. Trapped under record of performance rules. Cockerel price list free. Interlakes Farm, Box 9, Lawrence, Michigan.

**BARRED ROCK COCKERELS**, vigorous beautiful birds from heavy laying strains, \$2.50-\$3.50. Several yearling males. Holterman strain, \$4-\$5. I. H. Osgood, Cloverdale, Mich.

**TURKEYS, GEESE, DUCKS**—Finely bred Bronze Turkeys, White Pekin Ducks, Geese. Write for descriptive circular and price. State Farms Association, Kalamazoo, Michigan.

**BREEDING COCKERELS** and pullets, six varieties. Order Baby Chicks now and get big discounts. Free catalog. Beckman Hatchery, Grand Rapids, Mich.

**A LIMITED number White & Silver Laced Wyandotte Cockerels**. Write for prices. J. C. Pardee, Alma, Mich.

**PURE-BRED White Pekin drakes**, heavy laying strain ducks, \$2.00 each., Dan McAvoy, Laingsburg, Mich.

**50 VIGOROUS hen hatched Buff Rock Cockerels**. Cloverleaf Stock Farm, Monroe, Mich.

**TOULOUSE GEESE**, white Pekin ducks, unrelated. Simon Maichele, Middleville, Mich.

## TURKEYS

**UP TO JANUARY FIRST** will sell ten pound Bourbon Red Hens \$7; twelve to sixteen pound toms \$10; Pekin Duck Drakes \$3.50; 6 pound Plymouth Rock Cockerels \$3.50. These birds are northern farm raised and extra fine. Money returned if not as stated. W. S. Mitchell, Bloomington, Mich.

**TURKEYS**, all breeds. Strictly pure-bred. Unrelated pairs, and trios, reasonable prices. Eastern Ohio Poultry Farm, Beallsville, Ohio.

**PURE-BRED Mammoth Bronze Turkeys**, Champion Strain. Large and vigorous. Mrs. B. Smatts, East Jordan, Mich.

**PURE-BRED Mammoth Bronze Turkeys**, Goldbank strain. Finely marked. Strong. Mrs. Milton McKay, East Jordan, Mich.

**MICHIGAN'S BEST Giant Bronze turkeys**, large, utility and fancy. The birds that always give satisfaction. N. Evalyn Ramsdell, Ionia, Mich.

**PURE-BRED Narragansett turkeys**. Mrs. Frank Kile, Adrian, Mich., R. 7.

**PURE-BRED Giant Bronze turkeys** Champion Strain, hens \$7, toms \$9. Ida Davey, Ellsworth, Mich.

**MAMMOTH BRONZE TURKEYS**—fine stock. G. W. Thacker, Leroy, Mich.

**PURE-BRED BRONZE TURKEYS**, Toms \$10., hens \$7. W. J. McConnell, Deckerille, Mich., R. 1.

**MAMMOTH Bronze Turkeys**, May hatched. Very good ones. Mrs. Eugene Ramsdell, Hanover, Mich.

**GIANT BRONZE** fancy young toms for breeders. Best strains \$10. E. L. Mitchell, Hart, Mich.

**PURE-BRED BOURBON REDS**, toms ten, hens eight, till January. F. J. Chapman, Northville, Mich.

## AGENTS WANTED

**ACTIVE MAN** to book orders, hire sub-agents, and superintend this territory for long established firm. No investment or sales experience necessary. Money making opportunity for right party. Pay weekly. Knight & Bostwick, Newark, New York.

## HELP WANTED

**MILK ROUTE SALESMAN WANTED**—\$200.00 cash bond required. Steady employment, good wages and chance for advancement. Write for further particulars. Freeman Dairy Company, Flint, Mich.

**DRIVER SALESMAN**—23 to 35 years age. Permanent employment; good future. Write us if interested. Belle Isle Creamery, 3600 Forest E., Detroit, Mich.

## SITUATIONS WANTED

**FARM MANAGER**—Position desired by practical and up-to-date farmer, first class mechanic and experienced cattle breeder. Address Box 127, Mich. Ign Farmer, Detroit.

**WANTED**—Situation on a dairy farm by an experienced farmer. References from the Michigan State College. George H. Foster, Stockbridge, Mich., R. 1.



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