

MICHIGAN FARMER

AND LIVE STOCK JOURNAL.
PUBLISHED WEEKLY. ESTABLISHED 1843.

VOL. CLIX, No. 27
Whole Number 4233

DETROIT, MICH., SATURDAY, DECEMBER 30, 1922

ONE YEAR \$1.00
FIVE YEARS \$5.00



Threshold of the New Year

*We stand upon the threshold, we are in the opened door,
We tread upon a border land we have never seen before;
Another year is opening, and another year is gone,
We have passed the darkness of the night, we are in
the early morn;
We have left the fields behind us, over which we
scattered seed;
We pass into the future which none of us can read.*

*The corn among the weeds, the stones the surface mold,
May yield a partial harvest; we hope for sixty fold.
Then hasten to fresh labor, to thrash and reap and sow,
Then bid the new year welcome, and let the old year go—
Then gather all your vigor, press forward in the fight,
And let this be your motto, "For God and for the
Right."*



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One Year, 52 issues \$1.00
Three Years, 156 issues \$2.00
Five Years, 260 issues \$3.00

All Sent postpaid
Canadian subscription 50c a year extra for postage

RATES OF ADVERTISING

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

Member Standard Farm Papers' Association and Audit Bureau of Circulation.

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

VOLUME CLVIX NUMBER TWENTY-SEVEN

DETROIT, DECEMBER 30, 1922

CURRENT COMMENT

THE MICHIGAN FARMER SAYS:

Let us fully resolve to keep our good resolutions.

This is the best season of the year for the farmer to turn over a new leaf in his account book.

To every reader, young and old, we extend our heartiest New Year's greetings and best wishes for a most prosperous and happy 1923.

Watch the Legis- lature

NOW that the legislature is about to convene it will be the part of wisdom for the average citizen to give some thought to legislative matters, especially those phases of legislation which have a bearing on the important matter of taxation.

There is no need to further discuss the matter of taxation at this time. Most of our readers are distressingly familiar with it at this season of the year. There is probably little hope that it can be decreased. The people of the state as well as the nation have the habit of making ever-increasing demands in the way of public improvements and service. This habit is rampant even in the lesser units of government, as well as in state and national affairs.

Ambitious individuals, committees and boards secure the insistent backing of powerful groups to secure large appropriations for expansion in improvements or service. And usually it is not difficult to bring the required pressure to bear. Except around the annual pay day the average person is too prone to look upon seemingly beneficial governmental activities as something due them, almost as something for nothing. But this is true only with those who escape the full burden of taxation under our tax laws, and it is pointed out that this or that increased appropriation means but a slight amount to the average taxpayer, scarcely enough to be noticed, certainly not enough to be a burden. But "many a mickle makes a muckle," in taxes as well as in savings, and it is time to call a halt on the extravagant increases in taxation and for retrenchment wherever this is possible.

But this result will not be secured unless the taxpayers of the state make it their business to impress the need upon their representatives in the legislature at every opportunity during the coming legislative session. To the

end that our readers may have dependable information as to the progress of legislation of interest to them, the Michigan Farmer will have an editorial representative in Lansing each week during the legislative session and will give a weekly summary of legislative news. It will be our effort to make this news a chronicle of facts rather than opinions, leaving to our readers the task of keeping their respective legislators advised as to their views on pending legislation, which should be considered as an obligation rather than a privilege by every thinking citizen.

Another Volume Finished

WE have traveled a good deal by automobile. After finishing a long trip it is a real pleasure to take a good road map and trace out the course of the journey. This recalls the many things which were seen, or experienced at the various points in the trip.

There is quite as much pleasure in reviewing the work of each volume of the Michigan Farmer as it is completed with the last issue of December, or June. With the present issue volume number one hundred and fifty nine is completed. The index for this volume appears in the last four inside pages of this number.

This index gives the reader a rather clear idea of the course followed by this journal during the past six months. A glance at the topics under each heading suggests the broad field of service which the department renders.

The next issue begins our eightieth year. But with these years of service to Michigan agriculture there have not developed any apparent marks of senility. In fact, during the past year there has been real evidences of a pliability that comes only with a youthful spirit. The health department, the household service, the reawakening of the boys' and girls' pages are full of suggestiveness that the Michigan Farmer is serving the youth of our rural places to the fullest degree.

A Big Week for Farmers

IT matters but little what line of farming one may follow, he is certain to find the program for Farmers' Week at the M. A. C. from January 29 to February 2, of direct interest. This year's session will include the annual gathering of a dozen or more farmers' associations than have been listed at previous Farmers' Weeks at the college.

Hitherto the Michigan Live Stock Breeders' and Feeders' Association, with its allied bodies, has met at East Lansing early in January. Recently it was decided that the live stock men would profit by contact with the other farmers and farm leaders at the annual round-up and therefore the date for the meeting was set for the week of January 29.

Among the organizations which will convene during Farmers' Week are the Michigan State Farm Bureau, Michigan Crop Improvement Association, Michigan Potato Producers' Association, Michigan Beekeepers' Association, Michigan Rural Press Association, Michigan Muck Farmers' Association, Michigan Soils Association, Michigan Poultry Association, Housewives' Congress, County Agricultural Agents' Association, Michigan Home Demonstration Agents, Michigan Boys' and Girls' Club Leaders, County Y. M. C. A. Secretaries, and the fifteen live stock bodies.

Smiles But Insists

DID you ever get caught in a forest fire and then, by merest chance, break through at some point and run away from the burning area?

After you got away your closest

friend would scarcely have known you. Your clothes would smell strongly of smoke, your hands would be black, your hair singed, your face covered with ashes. But in all probability you would smile—smile at your good luck.

I think it must be just this way with the farmer. In a business way he has, during the past eighteen months, gone through fire. But in spite of this experience, which in his particular case has been exceedingly distressing, he seems to keep on smiling. At many farmers' meetings of late he has shown a joviality and a liveliness which are inconsistent with hopelessness.

But the way the farmers are attending meetings, taking interest in every subject having any bearing upon the farming business, insisting that their own cooperatives be effective but not extravagant, and holding their public servants responsible for making the public machinery go at a reasonable cost, the way the farmers are doing these things indicates that they sometime in the future expect the other fellows will be carrying their proportionate share of the tax load, and be conducting their business on an equitable basis with the men who till the soil.

A Scarcity of Brides

WE have long held the idea, especially among the men, that there was a scarcity of men and therefore those who wear trousers, shave, smoke, swear and have all the other manly qualities, should be held at a premium on the marriage market.

But now comes along the United States Bureau of Commerce which tells us that the present status of the law of supply and demand shows that there is a superfluity of males and that the rural sections are suffering more from this status of affairs than the cities. For instance, the figures show that there are about 54,000, or 13.7 per cent more men in rural Michigan than there are women, while Michigan cities have 10.8 per cent more men than women.

This makes it look as if some of us were doomed to bachelorhood unless we packed up and went to Europe where the ratio is reversed, or perhaps better yet, permit some of the girls from there to come over here, for throughout the whole country there are four per cent more men than women.

Perhaps the situation as indicated will give us a greater appreciation of our daughters and sisters, and of the necessity of conserving America's womanhood, especially in the rural sections.

The Mechanical Age

IT is well to look in retrospect when one season's work has been completed and another is about to start, for retrospection helps us to realize better the wonders of the age we are living in.

For four thousand years agriculture went without much improvement. Grain was threshed in the eighteenth century by horses or oxen as it was in old Egypt, and with the exception of plowing and harrowing, farming was done by hand work.

To be exact, the old order remained until 1833, just ninety years ago. Then the reaper and the threshing machine came, and in thirty-three years all the operations of planting, mowing and threshing, were done by horse power. Then transportation began to develop and new markets were opened. This continued until now we are in the process of converting all the major farm operations from horse and machinery cooperation to the use of machinery alone, and besides, we are modernizing farm marketing and business methods.

The past ninety years can correctly

be called the mechanical age. During this time more has been accomplished than during the previous forty centuries. This was due mainly to invention and manufacture. This age has lifted the burden from man's shoulders and put it upon his brain. Through thought and planning man has conquered the elements which he formerly tried to subdue by physical force. This is the age in which thought has become one of the great factors in agricultural operations as well as in other lines of endeavor. It takes more thinking to farm profitably than ever before.

It just occurs to us that the man who still wants to do as his father did and wants to set in the hold-backs instead of pulling on the tugs, was born too late. He would have enjoyed himself if he had been born a thousand years ago, for then he would have had more company of his kind.

May we append without any feeling of egotism, that the Michigan Farmer was born just ten years after things began to happen in agriculture and has since been a chronicler of the agricultural events and a messenger of the agricultural thoughts and ideals of this wonderfully progressive age.

1923 A. D.

WHAT'S above is the offishull Oughto license number of the comin' year. Them letters at the end is for somethin'. For 1922 it means All Done, but for 1923 maybe it means the state.

For inst., there's one state what's got Md. after its number. It's the doctor state. Another is got Ill., which is the state in which the doctors make money outa their pashunts. Then there's Ore., which is short for junk and is what the Dr's put into their pashunts. And next there's Wash., which is what you and the Dr. do after you get through with the what you call encounter with



each other.

Them letters after 1923 must stand for the State of Civilizashun which is governed by the people, for the people and of the people. It's Capitol is Labor and its predominatin' polyticks is Foolishness.

Anyhow, before puttin' this new tag on our Oughto of Progress, and startin' to proceed, we should remember we are carryin' with us a tool bag what is full of the results of hundreds of years of Unselfish Thought and Endeavor. There's tools in there what is made of the accumulashun of Human Hatred and Meanness, but there's others which is much better and they is the tools of Love, Faith and Purity. We gotta be careful of this bag of tools 'cause it is what you call our Heritage.

We are all goin' to work this comin' year, but we gotta be careful of the kinda tools we work with. Sometimes tools look a lot alike, but what they do to our job is lots different. Let's pick out them good kinda tools even though they are a little harder to use in the beginnin', 'cause we are sure goin' to get a heap more satisfacshun outa them than outa the others.

Anyhow, whenever you see a Oughto passin' you on the road with 1923 A. D. on it, you kin know it's me and Sophie and the kids takin' Father Time out for a ride and makin' him feel like he is as young as he used to be. And you just watch our smoke as we are proceedin', 'cause you know we gotta proceed some to keep up with Time.

Me and Sophie wish you all a Snappy New Year.
HY SYCKLE.

We are sold on the four per cent idea because two and one-half per cent is entirely too weak. We mean, of course, four per cent of butter-fat.

What Is the Fruit Grower's Best Bet?

"Organize, Standardize, and Advertize" Is Slogan of Annual Convention

By Burwell Cummings

THOSE who saw the exhibit of Michigan apples at the Apple Show in Grand Rapids, early this month, must have been struck by the fact that they were as highly colored and as appealing to the eye as any western apples they ever saw. They were the equals of the same varieties of western apples in size, shape, and color, and their superiors in texture and flavor.

Michigan ranking sixth in number of bearing apple trees holds third place among the states in the size of its 1922 commercial apple crop. This certainly speaks well for the growers of Michigan. It shows that they are in the forefront in the use of modern methods of fruit culture for the production of quality and quantity.

Michigan's future as a horticultural state is assured. Today she ranks fourth among the states in the number of young apple trees with eleven million, or four times as many as the Pacific states can boast of. According to the best authorities, there are many hundreds of acres of just as wonderful apple and fruit sites still unplanted in various parts of the state.

An atmosphere of optimism pervaded the annual meeting of the State

Horticultural Society in Grand Rapids. Although the attendance of growers was not exceptionally large, those present showed a great deal of interest in the problems at hand, and as Professor V. R. Gardner, the new head of the Horticultural Department of the Michigan Agricultural College, remarked, "They acted as partners in a going concern."

Everyone seemed to realize that their fruit was not being marketed to the best advantage and something had to be done if they, as growers, were to receive the return from their fruit which it would seem the market offers. Great interest was shown when Mr. C. I. Lewis, the managing editor of The American Fruit Grower, spoke on advertising; and when Mr. F. A. L. Bloom, the manager of the Farm Bureau Produce Exchange in Detroit, discussed the exchange and its service to the growers of the state.

Believing that the question of marketing is by far the most important problem which the growers of Michigan apples and other fruits will have to solve, I inquired of several of the speakers on the program what they

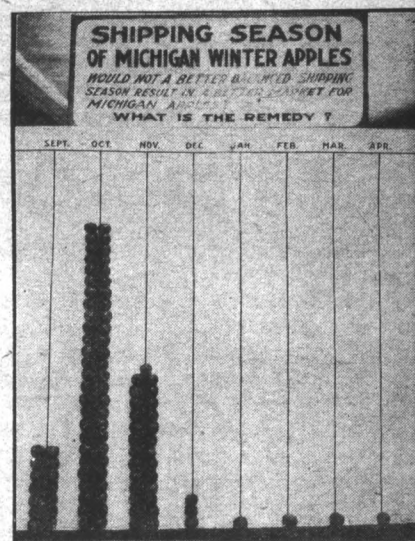
considered to be the causes of the present condition.

"Whether we like it or not," said one of the most prominent speakers, "the growers themselves are principally to blame for the conditions that exist and it will be up to them to right them. Do you remember those two charts which the horticultural department of the college displayed at the show? Well, they pointed out the two main reasons why Michigan growers are not getting a better price for their apples, and they can not hope to get a better return until the conditions have been remedied, or better still, removed entirely."

These two charts startle one, but they are taken from government statistics and they tell the truth of the situation. The first one shows that more than ninety per cent of the winter apples are shipped during the months of September, October, and November, with more than fifty per cent of this crop shipped during the month of October. This condition leads to a glutting of the market and the resultant low price which enable outsiders to purchase the fruit and hold it for the better market later on. This condition cannot be materially bettered until the storage facilities available to growers shall have been improved and extended.

The other chart emphasizes the bad situation shown in the first by pointing out the fact that the great bulk of the apple crop is shipped to two markets, principally to Chicago. If more than fifty per cent of the apple crop is shipped during the month of October, and over one-half of that amount, or more than one-fourth of all the winter apples grown in the state, are dumped into the Chicago markets during the month of October, what other condition could exist? Is there not a real reason for the falling off of the price?

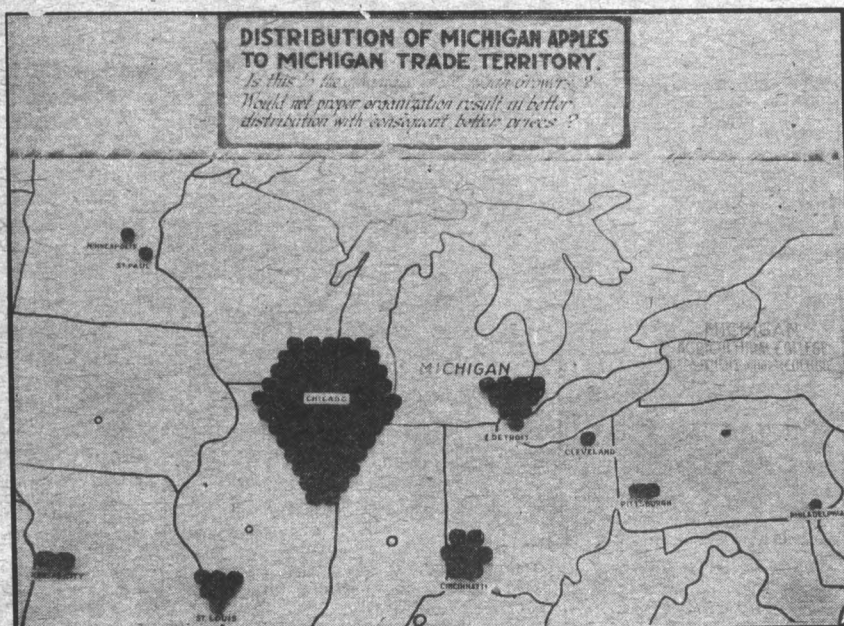
What is the remedy? If we are to get the greatest return from our fruit, the market must be fed scientifically; that is, we must cover more thoroughly all of the territory at our disposal and not dump our fruit on a few large markets. The territory must be fed ac-



cording to its demands and at the time when the demands exist, not crammed with fruit during the month of September, October and November, and left in want of it during the period when the best prices could be obtained. This is the problem which confronts us, according to Professor Gardner, and its solution, he says, lies in organization.

Although there are many local cooperative organizations throughout the state, more should be formed during the coming year. These organizations, when combined and working as a unit, through a central exchange, will be capable of feeding the markets as their demands and the price they offer dictates. The demand for western fruit exists in Michigan because Michigan apples of quality put up as the trade demands them are not available.

Mr. Bloom, speaking at the convention, said, "You growers must do most of your business through a fruit exchange, a local cooperative marketing association of farm bureau; and you must standardize and have an attractive pack. If you ship through a local organization, you will have the benefit of lower freight through carload shipments and the organization will have a hand in grading and standardization. Carload shipments would also enable the placing of consignments on the highest markets." (Con. on page 690),



Co-op Men Get Heads Together

There is Every Chance that the Washington Conference of Cooperatives Will Develop Into a National Farmers' Business Organization

THE first annual convention of the National Council of Farmers' Cooperative Marketing Associations, held in Washington, December 14-16, was regarded by many of the delegates present as the most important meeting so far as agriculture is concerned, ever held in the United States. Representatives of cooperative commodity groups from more than thirty states were in attendance.

In a letter in which he emphasized his regrets at not being able to attend the conference, read by Senator Ernst, of Kentucky, President Harding said:

"I know no single movement that promises more help toward the present relief and the permanent betterment of agricultural conditions than this one. I am anxious that the government do everything within reason and sound procedure; and I am still more anxious that the farmers shall themselves cooperate to make the government efforts doubly efficacious."

"In the long run, government aid can not be made effective unless the farm-

ers shall be organized and alive to their own responsibility to establish and use practical instruments for the distribution of credits and the assurance of the most economical marketing methods. This association stands precisely for the best, most intelligent effort to establish such methods, and to teach the farmer and his friends to utilize them. Because I am convinced of this, I feel that this meeting is of unusual importance and significance, and I wish you would convey this expression in the most emphatic terms."

The object of the convention as outlined by Aaron Sapiro, of California, was to establish closer relations with the Federal Department of Agriculture; to establish close contact and a better understanding with the national farm organizations; to develop plans through which the relations already existing between the cooperatives may be strengthened; to frame definite recommendations to congress on the subject of rural credits, and to set up a permanent national organization with

headquarters in Washington, which will devote its attention exclusively to cooperative commodity marketing.

Political efforts to better the conditions of the farming industry having failed, Mr. Sapiro said it was now time for the farmer to remedy his industry from within himself through cooperative merchandising. Between 600,000 and 800,000 farmers have already signed up the five-year contract binding them to sell through their cooperative marketing associations, representing a billion dollars worth of crop merchandising not dumped on the markets.

Speaking for the American Farm Bureau Federation, Walton B. Poteet, of Texas, said he thought it desirable that the commodity cooperative organizations should correlate their efforts under one central overhead organization. He did not consider this a proper occasion for antagonism between farm organizations, and assured the conference of the sympathy of the farm bureau in the effort to build up a great

cooperative marketing organization.

The National Farmers' Union was represented by W. C. Lansdon, of Kansas, who told of the development and work of the union.

Congressman John C. Ketcham, of Michigan, speaking for the National Grange, referred to the declaration of the National Grange adopted in 1874, in which the object of the organization was "visiting together, talking together, buying together and selling together, and desiring to bring producers and consumers closer together." One of the distinctive things about the grange, according to Mr. Ketcham, was that it was alive, while some five hundred farm organizations have died since the grange began its existence. The grange educational work has made the ground fertile for cooperative business efforts of farmers.

If you can successfully establish a system of cooperative marketing for the sale of staple farm products, which would act to avoid glutting the markets and at the same time to obviate

periods of scarcity, it would be more important than the mere elimination of marketing costs, according to Secretary of Agriculture Henry C. Wallace, who spoke on "Government Cooperation with the Farmers."

"We feel that marketing is just as important as production," said Secretary Wallace, "and it is just as much our business to help the farmer market his crops intelligently and get fair prices for them as it is to help produce them."

The general trade situation is in a highly uncertain state, particularly in marketing farm products, said Dr. Julius Klein, chief of the Department of Foreign and Domestic Commerce, in an address on "Cooperation and Commerce." There is a tremendous surplus awaiting the influence of demand. The situation requires more scientifically calculated marketing and less dealing in futures. He held that the great problem in the farm products situation is to find foreign markets where they can be sold.

Mr. Meyer, manager of the War Finance Corporation, said he believed that the spread of the cooperative marketing movement, beginning with the first loan made by the War Finance Corporation, has done more to facilitate recovery from the acute and extreme depression of last year than any other single factor. I can say fairly that very little exception can be taken to the policies, or to the management and personnel, of the marketing associations to which the War Finance Corporation has authorized advances totaling \$178,000,000 during the past sixteen months."

Speaking of rural credit bills now before congress, Mr. Meyer said the bill recently introduced by Senator Capper is not only based upon the experience of the War Finance Corporation during the present agricultural depression, but represents the conclusions of many conferences with the leaders of cooperative marketing associations. It is based upon the principle of utilizing existing banking institutions, supplementing those institutions with new machinery only to the extent that is necessary. He thought that "agriculture is entitled to the best rediscount facility, which is the federal reserve system."

One of the most helpful things that could be done in advancing rural credits, according to Mr. Meyer, would be to bring into the federal reserve system the 9,640 country banks which are now eligible for membership but which have not entered the system. These 9,640 banks have an aggregate capital and surplus amounting to more than \$9,000,000,000. In these banks, located for the most part in the farming sections of the country, lies the basis

for the greatest development in rural credits that could possibly be brought about.

The sixty-seventh congress has passed more constructive legislation intended to aid the producers than any other three congresses, according to Senator Arthur Capper, in an address on rural credits legislation. He refer-

Our Oldest Reader?

IN the celebration of our Eightieth Anniversary, we grow reminiscent. We like to recall the times when this publication was young. Therefore, it would please us to hear from those who have gone through the many decades of rural progress with us.

There are many who have found interest in our columns for twenty years, or more. Yes, even some few have been readers for nearly fifty years. From these we would like a few words telling of the Michigan Farmer they knew in the early days.

It is through the cooperation of our readers that we hope to get in touch with the oldest living reader of the Michigan Farmer, and the family in which it has been a weekly visitor for the longest period of years. Address your letter to the editor.

red to the Anderson-Lenroot bill as being a compromise measure, but all in all a meritorious bill. He predicted that this congress will pass a bill that will be built around that plan. It was his belief that the Capper live stock financing bill will not conflict with other bills now pending.

Senator Capper advised the producers to keep in touch with their senators and congressmen. "Telegrams and letters from back home," he said, "will have an influence in shaping legislation."

One of the most recent, and also most liberal rulings of the federal reserve board was to the effect that where a member of a cooperative association delivers his crop to the association and at substantially the same time draws a draft on the association which is accepted by it and discounted by the drawer at his own bank, such a draft is a bill of exchange drawn in good faith against actually existing values and, therefore, is excepted from the ten per cent limitation prescribed in the federal reserve act on the aggregate amount of paper of any one borrower which a federal reserve bank may rediscount for any one member bank. This should be beneficial to farmers and their cooperative marketing associations, because it permits the

re-discount of such paper in unlimited amounts.

The delegates unanimously accepted the report of the committee on rural credits, recommending the setting up of farm credit departments in each of the federal land banks with an aggregate capital of sixty million dollars. The report called upon the banking and currency committee of the house and senate for the immediate passage by congress of a rural credits measure containing five cardinal features, as follows:

1. That the federal reserve law be so modified as to extend the maturity of agricultural paper to a maximum period of nine months; that it fix the standing of cooperative marketing paper issued for orderly marketing as such agricultural paper; that the limit for loans on such paper to any one cooperative association be fixed at fifty per cent of the capital and surplus of banks, members of the federal reserve system, and that more state banks be encouraged to become members of the federal reserve system.

2. That the maximum basis of loans from farm land banks be raised to \$25,000.

3. That adequate opportunity be provided for the creation of agricultural credit corporations with sufficient minimum capital to purchase or discount ordinary agricultural paper with a maximum maturity of nine months, and live stock paper with a maturity of not more than three years, with rediscount corporations adequately capitalized to purchase such paper from agricultural corporations with the priv-

each of the land banks, making a total of \$60,000,000 capital, against which credits may be issued to the extent of \$600,000,000, and that these departments be authorized to discount or purchase agricultural paper in a broad sense and to make loans or advances directly to cooperative marketing associations and agricultural cooperative credit associations.

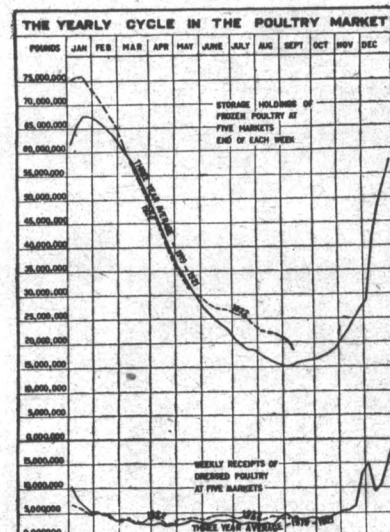
5. That the federal land bank have the right in any district of the United States to purchase production credits limited to such credits where the note of the individual is endorsed by the cooperative credit association, or is secured by a chattel mortgage on implements or animals, or both, and endorsed by a local bank, or where the note or draft itself is made by a cooperative credit association of producers.

Resolutions were also adopted urging the Interstate Commerce Commission to hold hearings for the purpose of reopening the question of railway freight rates; that agricultural colleges be asked to provide more adequate facilities for teaching cooperative marketing, and that support be given the Voigt anti-filled milk bill.

The committee on permanent organization, of which John D. Miller, of the Dairymen's League Cooperative Association, was chairman, unanimously recommended that the National Council of Farmers' Cooperative Marketing Associations be made a permanent organization, to handle problems that do not parallel or overlap the activities of any other farm organization but will act as a mouthpiece for the cooperative marketing associations.

The committee recommended further that a committee of fifteen be appointed by the convention with authority to investigate the need for such an organization, to act until May 1, 1923, after which it shall act as the first regular executive committee of the council. A membership fee is to be charged each member association on the basis of five cents per capita, and it was estimated that the national organization would include in its membership cooperative marketing associations with a minimum estimated membership of 500,000 persons. The committee is also empowered to employ a secretary.

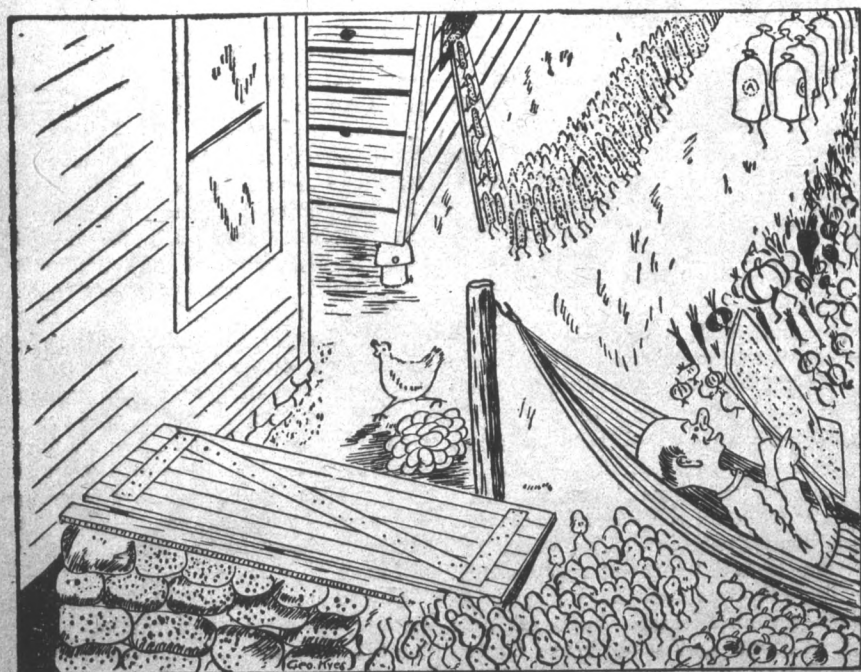
Members of the committee of fifteen are as follows: Robert W. Bingham, of Kentucky, chairman; Carl Williams, of Oklahoma, and Milo D. Campbell, of Michigan, vice-chairmen; H. G. Coykendall, of California; J. H. Barber, of California; John D. Miller, of New York; E. H. DePoncier, of Virginia; Aaron Sapiro, of New York; G. H. Foss, of Maine; F. B. Chaney, of Arkansas; Dr. B. W. Kilgore, of North Carolina; George C. Jewett, of Oregon; Howard Leonard, of Illinois; G. A. Norwood, of North Carolina, and Dan G. Wallace, of Minnesota.



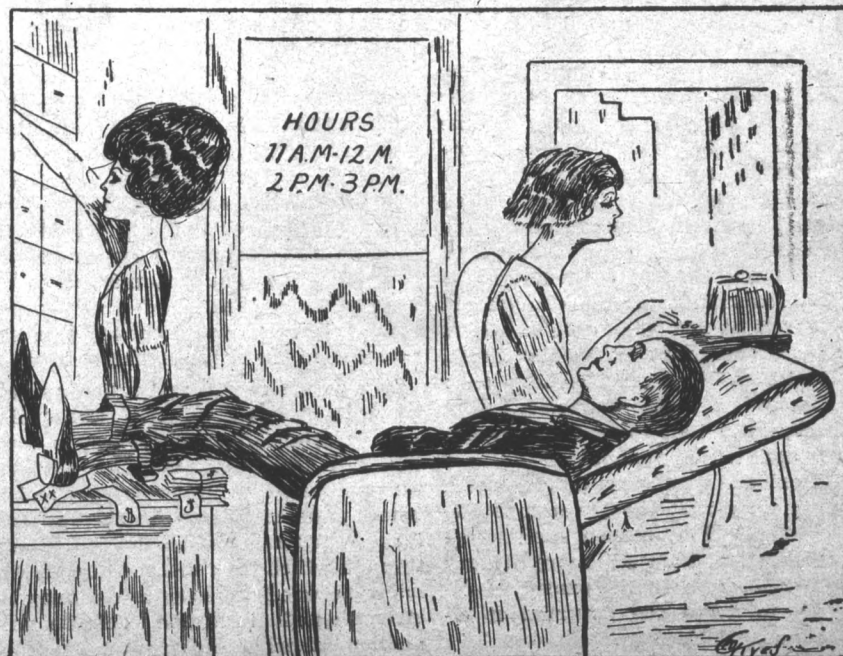
This Chart Shows Storage Holdings of Poultry for Each Month of the Year, and, at the Bottom, the Weekly Receipts of Dressed Poultry on Five Important Markets.

ilege of rediscounting it through the federal reserve system.

4. That a farm credits department in federal land banks to be set up with a capital of five million dollars in



A City Man's Idea of Country Life.



What the Farmer Thinks of Life in the City.



Sweet Clover Merits the Newly-found Position it Holds in the Hearts of of Thousands of Michigan Farmers.

Apples and Other Things

By L. B. Reber

THE ground is white with snow, a fat goose is squawking in the yard, savory smells come from the kitchen, the holiday season is here again. Well, I am thankful I live in Michigan. We are not a great dairy state like New York, a great corn state like Iowa, a great wheat state like Kansas, a great author state like Indiana, a great swamp and cut-over state like Wisconsin, a great mining state like Colorado, but we have all these things in such abundance that we have some to spare for our neighbors and in addition we have many things which they lack.

Gus Kull, of Berrien county, can sure back up my defense of the Stayman Winesap apple. He raised some blue ribbon apples this year from eight-year-old trees and sold all he had right at home at a good price. Pennsylvania or Missouri could produce no better apples because his could not be beaten for size, color or flavor. John Krieger reports poor results from his Mackintosh trees and attributes it to the fact that his orchard is on heavy clay land. I wonder how about it. My trees are too young to bear but they also are on heavy clay. They have made a beautifully symmetrical growth, the best of any of my young apple trees.

Thousands and thousands of peach

trees are ordered for this section to plant next spring. It looks as though people are peach crazy. For myself, I shall set another hundred apple trees, fifty Stayman Winesap and fifty Mackintosh. I set the Mackintosh in order to do my part towards standardizing Michigan apples. Thousands of Delicious apple trees have been set in this section but I never find one in bearing. Evidently the originator's claim of early bearing was somewhat stretched. I shall not set any more Delicious, as I fear they are not adapted to Michigan conditions. No one sets Baldwins or Northern Spies any more, though both are excellent apples. Not for me the Winter Bananas, they bear young and have heavy crops but the quality is below par. The Kieffer pear is in bad favor here and few trees are being ordered. I shall set the Wilder if I set any pears. Pear tree prices are too high, ninety cents a tree is too much for me. No more dwarf apples for me. Mine grow poorly and have not borne an apple, though guaranteed to bear the second year from planting. I have about come to the conclusion that nurserymen are either overly optimistic or else they are all members in full standing of the Ananias club.

I hear a lot of complaint about trees dying last summer. In every case the nurseryman is blamed. A fruit tree will stand a lot of abuse. It is about the toughest tree there is, all but the sweet cherry. My own loss is not over one per cent a year, and this last summer it was nothing as not one of my newly set trees died. People make the mistake of cutting back a sweet cherry tree. The best advice I can give in regard to pruning cherry trees is, "Don't." If you want a cherry tree to die just give it a vigorous pruning and it will oblige. When you have your pruning shears and saw in your hands, steer clear of the cherry trees, whether they are newly set or twenty years old. You can hardly kill a peach tree by pruning, and an apple tree will stand a lot of butchering, but keep away from the cherries if you want them to live. When you set a young tree, prune the roots, give them plenty

of room, be sure the top dirt is worked in solid around the roots, and put a little loving care and consideration into your work. You are handling a baby, remember. I have saved trees that were over two weeks on the road, and so dried out that the bark was shriveled. A neighbor advised me to

throw them on the brush pile; I ate fruit from them this past summer.

Here I am again, riding my hobby, and I must ring off. How is that for a mixed metaphor. Anyway, I love trees, and especially apple trees. If you want a hearty welcome at my house, just start talking apple trees.

Why Not Certify Nursery Stock?—By L. R. Taft

OWING to the number of fruit trees furnished by nurseries which prove untrue to name, the certification of nursery stock by some trustworthy organization has been suggested, one plan proposed being the examination of bearing trees while in fruit and the certifying of the cions to be used for propagating.

This method of certifying the cions would be helpful if the practice could be country-wide, but if the certification is confined to Michigan, it will not be very beneficial since less than ten per cent of the trees planted in this state are grown in Michigan nurseries, and even though planters wish to secure trees grown from certified cions, they will not be able to obtain them. We fear also that the certifying of the cions will not always secure to plant-

if they do not have the varieties ordered, to put in other kinds of which they have a surplus, labeling them according to the order. These men are not likely to change their methods and would be most active in calling attention to their certified stock. It would be an easy matter for them to secure a few certified cions and their catalogs and other literature could be so worded that the public would think they have certified stock only.

Each year there is an increased tendency for Michigan nurserymen to obtain their fruit trees from nurseries in New York, Connecticut, Pennsylvania, Maryland, Ohio, Indiana, Illinois, Iowa, Missouri, Kansas and other states, and even those who formerly grew large numbers of fruit trees now depend largely on other nurseries for their



Harvesting a Bumper Sunflower Crop on the Well-tilled Farm of Ernest Pettifor, of Otsego County.

NEW CHAMPION HOLSTEIN.

THE Holstein-Friesian Association of America announces a new champion for Michigan in the 365-day division of the junior two-year-old class. This champion is Pontiac Quince, who belongs to the herd of the State Hospital at Pontiac, Michigan. She made in the 365 days, 21,556.9 pounds of milk and 685.05 pounds of butter-fat. By this record she displaces Emblagarrrd Colantha Bakker, who was owned by the Emblagarrrd Dairy at Marquette.

The state record for 365-day production for all ages is held by Traverse Walker Maid Lass whose record is 25,751.6 pounds of milk and 1,003.92 pounds of butter-fat. This cow is also owned by the State Hospital.

ers trees that are true to name. The mistakes made in varieties are either the result of errors made by the honest nurserymen, and of errors, or the fraudulent filling of orders by the dishonest nurserymen.

With the utmost care on the part of the "reliable" nurserymen, mistakes will occur and the trees sent out may be quite different from the way they are labeled, even though certified cions are used. In some cases, it has been difficult to secure intelligent help and errors are almost certain to occur.

Michigan nurserymen as a class compare favorably so far as honesty is concerned with the men in any other line, but we have known of nurserymen in Michigan as well as in other states, who apparently do not hesitate,

supply except perhaps of peach trees and give their attention to the growing of ornamental trees and shrubs.

In Massachusetts, they have at tempted in a small way the actual certification of fruit trees. A metal tag with name of the variety is fastened to each tree by running a small wire through a branch and sealing it. There is no opportunity for fraud when the individual trees are marked in this way.

It is quite feasible with most varieties and would be reasonably safe with all sorts if certified cions are used. As carried on in Massachusetts, the actual cost of certifying the trees is three cents each. In Michigan the benefit would be limited by the comparatively small number of trees in the nurseries.



Here Are Six Cows from Lakewood Farms in Calhoun County. Each of these Cows Has Produced 100 Pounds, or More, of Milk Per Day. It is a Most Unusual Herd Record. Yet, it is Now Common Practice to Increase the Milk Production of Farm Herds Through Ousting the Low Producers and Breeding the Good Cows to High-class Pure-bred Sires.

LATE AGRICULTURAL NEWS

CRISSINGER ON RESERVE BOARD.

COMPTROLLER of the Currency D. R. Crissinger is to be appointed governor of the federal reserve board, to take effect January 1, and he will be succeeded by Eugene Meyer, Jr., director of the War Finance Corporation. This information comes from reliable sources. The farmer representatives are still wondering who will be appointed to represent the farmers on the federal reserve board.

SOURCE OF FARMER'S FOOD.

LAST October the department of agricultural economics addressed an inquiry to 25,000 crop reporters regarding the source of food consumed on the farms. The farmers were asked these questions:

- What percentage of food used by your family is produced on your farm?
- What percentage is produced in your locality, reaching you without railway haul?
- What percentage of food consumed by your family is not, but could be produced on your farm?
- What percentage of food not locally produced, could not be produced economically on your farm?

The replies from three states have been tabulated as follows:

Pennsylvania—a, 61.8; b, 7.8; c, 23.4; d, 7.

Ohio—a, 70.2; b, 7.2; c, 17.3; d, 5.3.

Michigan—a, 63.7; b, 9.2; c, 20.3; d, 6.8.

'FRUIT FLY QUARANTINE SUCCESSFUL.

THE quarantine erected by the federal horticultural board against the Mediterranean fruit fly has been successful in keeping this insect out of this country; but imports of fresh fruits from countries where the fly is known to exist is a constantly increasing menace.

The board has held hearings recently to discuss the question of further restrictions or embargoes to keep the fly away from our shores. As the fly is found in southern Europe it is probable that it will never become a serious menace in our northern states, nevertheless the American Farm Bureau Federation at its annual meeting in Chicago passed a resolution asking that adequate appropriations be made for the prevention of the fly gaining an entry into this country.

WOULD STABILIZE PRICES.

THE American Farm Bureau Federation and several members of the farm block favor the Norbeck-Nelson bill which would enable the War Finance Corporation to utilize \$250,000,000 in making loans to reputable foreign importers under sufficient guarantees for the purchase of our surplus agricultural products.

This bill proposes to enable the producer to get a better price for his products, by getting the surplus production of the farmer sold in foreign markets as fast as it can be absorbed. This, it is argued, would get rid of the surplus, which forces prices down.

A bill introduced by Representative Steenerson, of Minnesota, provides for a bureau of wheat price insurance to protect farmers from unreasonably low prices at the primary markets.

The Norris price stabilization bill is being effectively used to delay action on the ship subsidy bill until the senate banking and currency committee is ready to report out the administration rural credit measure. Days are being spent in debate on farm credits,

the tariff, federal reserve system and other matters. It is claimed, by the friends of ship subsidy that the filibuster is costing the government several hundred thousand dollars. This, however, is a false assumption as senators are paid a yearly salary and not by the number of days congress is in session, the only possible loss to any one being that leaders of the filibuster may talk themselves to death. Whether that would be a serious loss to the public at large depends upon the viewpoint.

APPROPRIATIONS BILL FOR THE DEPARTMENT OF AGRICULTURE.

THE amount recommended to be appropriated in this bill is \$68,781,553. It is \$21,852,380 more than the total of the 1923 appropriations, but the increase is due largely to the additional regulatory work being created for the department by congress, and highway aid.

The bureau of animal industry gets \$6,845,666, which is \$122,470 less than the appropriations available for 1923. In the appropriation for eradicating hog cholera the committee recommends \$181,500, which is \$103,980 less than the 1923 appropriation. For tuberculosis eradication work, \$2,877,600 is allowed, of which \$2,077,600 is for the payment of indemnities. The sum of \$866,180 is provided for meat inspection.

The bureau of plant industry is to receive \$3,241,470, which is \$391,440 less than the 1923 appropriation. The current appropriation of \$360,000 for the purchase and distribution of "valuable" seeds was eliminated from the bill, but will be tagged onto the bill before it gets far.

An appropriation of \$1,767,880 is recommended for the bureau of entomology, \$35,000 less than for 1923. An appropriation of \$200,000 is recommended for the prevention of the spread of the European corn borer, the same as for the present fiscal year.

An appropriation of \$20,000 is made for the collection of seed grain loans. Because of the continued drought in the northwest, congress appropriated

\$3,500,000 to enable the farmers in that territory to purchase seed grain. Of this amount \$2,000,000 was appropriated in the spring of 1921, and \$1,500,000 in the spring of 1922. Loans were made to 25,903 individual farmers, amounting to \$3,427,494. Of this amount there has been collected to November 4, 1922, \$1,272,666, or 31.1 per cent.

The bureau of public roads is given \$473,480 which is \$9,840 less than the present year's appropriation.

An appropriation of \$29,300,000 is recommended for the cooperative construction of rural post roads, and \$3,000,000 for forest roads.

For barberry eradication \$350,000 is allowed, the same as for the present year. An appropriation of \$12,000 is allowed for the frost-warning service of the weather bureau.

THE OLEO FIGHT.

THE oleomargarine manufacturers are busily engaged in an effort to prevent the internal revenue bureau from putting into effect its proposed regulations covering the oleomargarine and adulterated butter law and its enforcement.

The big dairy organizations and the American Farm Bureau Federation are backing the commissioner of internal revenue in his efforts to enforce an adequate regulatory law, and are unanimous in asking that oleomargarine be labeled oleomargarine and nothing else, and that all dairy terms, such as "dairymaid" or "butterine" be kept off the labels; that all yellow oleomargarine, no matter how it is made yellow, be subjected to the ten cents a pound tax to differentiate it from butter.

The dairy interests are seeking to have the senate subcommittee composed of Chairman McKinley, of Illinois, Ladd, of South Dakota, and Kendrick, of Wyoming, report to Senator Norris, chairman of the senate committee on agriculture, the Voigt anti-filled milk bill, which the sub-committee has had under consideration for a long time. It is understood that Senators Kendrick and Ladd are favorable to the bill but that it is objected to by Senator McKinley.

THE STATE GRANGE MEETING.

(Continued from last week).

OPPONENTS of the state income tax were assailed by State Overseer C. H. Bramble in his annual report to the State Grange. He attributed the defeat of the measure to the high-salaried men of the state who spread propaganda throughout Michigan just before the election, telling voters it was just another tax. He declared thirty-five per cent of the property of the state pays eighty per cent of all the taxes, while fifty-five per cent of the state's wealth is not on the tax rolls. He charged that the state senate is controlled by the Michigan Manufacturers' Association. Mr. Bramble proposes a state income tax on all incomes of \$5,000 and over. "I propose a graduated tax. I would levy four per cent on incomes between \$5,000 and \$20,000; six per cent on incomes between \$20,000 and \$40,000; seven per cent on \$40,000 to \$60,000; eight per cent on \$60,000 to \$80,000; nine per cent on \$80,000 to \$100,000; and ten per cent on \$100,000 and upward. Such an amendment would reach all incomes from mines as well as tax-exempt securities."

Master S. J. Lowell, of the National Grange, was present the last day, gave an address, and took part in the program and initiating of a large number into the sixth degree. The officers re-elected were as follows: A. B. Cook, of Owosso, master; C. H. Bramble, of Lansing, overseer; Mrs. Dora Stockman, of Lansing, lecturer; T. E. Niles, of Mancelona, steward; W. H. Lovejoy, of Perry, assistant steward; Mrs. O. J. C. Woodman, chaplain; Frank Coward, of Bronson, treasurer; Miss Jennie Buell, of Ann Arbor, secretary; Peter Klees, of Crystal, gate-keeper; Mrs. E. E. Salisbury, of Mendon, Pomona; Mrs. Maude Spaulding, of Buchanan, Flora; Mrs. W. H. Lovejoy, of Perry, lady assistant steward; Mrs. I. E. Corliss, of Coldwater, Ceres.

The new executive committee comprises N. P. Hull, of Lansing; A. W. Thompson, of Iron Mountain; J. W. Helme, of Adrian; W. E. Hill, of Davison; Mrs. Bernice M. Curtiss, of Charlotte; Mabel Madison, of Alpena; and W. F. Taylor, of New Era. It was proposed to amend the by-laws to provide for the annual convention to be held in October, instead of the second week in December.

A bitter attack on the government's reclamation service featured the closing day's program. A resolution adopted denounced the policy of spending vast sums of money in the reclamation and development of what are now waste lands, for the production of food crops in competition with already developed tracts. Another resolution for them.

The convention closed just at midnight, Friday, with a host of resolutions discussed and acted upon. These will be printed next week. The grange of Michigan, and especially National Grange Master S. J. Lowell, highly endorsed the "Michigan Automobile Tours," that J. H. Brown and the Michigan Farmer have originated and encouraged. The fifth annual tour will be from Michigan to Washington, D. C., and many of the grange delegates have registered. The tour starts from the George B. Horton farm on August 5, and 135 cars have already been registered. The tour manager has put the limit at 21 cars. He has been over the entire route and was called upon to report the tour details on Friday evening.



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LAND BOUGHT ON CONTRACT.

I bought a farm on contract and my landlord advised me to stock the farm and he would give me time on the interest. Now the interest is due and he is intending to demand the cash or put me off and sell it again. I have paid taxes and insurance and have kept the place up and fulfilled all covenants. What process will he have to take to get me off? I can get the money but I wish to know exactly how long a time I have to redeem it, etc.—H. F.

It takes about forty days to get possession of land sold on contract where the seller has performed all of his part. In case suit should be brought in chancery by the buyer to prevent summary proceedings for possession, he would be forced to put up a bond for twice the annual rent, to enjoin the summary proceedings, and the other expense in attorney's fees, etc., would be considerable.—Rood.

SOY-BEANS FOR FEEDING.

How do soy-beans compare in feeding value with cottonseed and linseed meal? In what ratio should they be mixed to grind with corn and oats to give an ideal milk producing ration for cows, along with silage, corn stover and alfalfa, once per day? Will they take the place of tankage, fed in a self-feeder, in a growing ration for pigs? What would be the value in dollars per hundred pounds, compared with cottonseed or with tankage?—L. J. L.

Soy-beans compare very favorably with cottonseed meal and linseed meal in feeding value. Soy-beans contain about thirty per cent digestible protein, while cottonseed meal contains from thirty-one to thirty-seven per cent, depending on the grade and linseed meal. Soy-beans contain about 14.5 per cent fat, while cottonseed and linseed meal contain from six to eight per cent. These figures are all on digestible basis and differ somewhat from the total analysis given on sacks or tags. Feeding trials with dairy cows at several different experiment stations have shown soy-bean meal to be equal to cottonseed meal in milk and butter-fat production.

When silage, corn stover and alfalfa hay, once per day, are fed, the following mixture of corn, oats and soy-beans should give good results when fed at the rate of one pounds to each four pounds of 3.5 per cent milk produced daily; cornmeal, 400 pounds; ground oats, 300 pounds, and soy-bean meal, 300 pounds.

Soy-beans have been used very suc-

cessfully as a substitute for tankage in the growing pigs' ration. Five trials at four different experiment stations showed that 0.9 pound of soy-beans per head daily was nearly as effective in supplementing corn in the pigs' ration as was 0.63 pounds of tankage. In other words, three pounds of soy-beans were equal to two pounds of tankage as a supplement for tankage for pigs.

Basing judgment on the digestible analysis and on the feeding trials mentioned above, soy-beans should be worth approximately the same per ton as cottonseed meal as a dairy feed, and approximately two-thirds the price of tankage for pigs.

It would seem reasonable not to be in too great a hurry to feed up your soy-beans because they may be worth more for seed as seeding time approaches. The feeding value will not deteriorate if they are left unground. You might get in touch with the State Farm Bureau Seed Department. You will at least in this way get the highest market price. It might be well to advertise locally as seeding time approaches.

STRAYS—BULL AT LARGE.

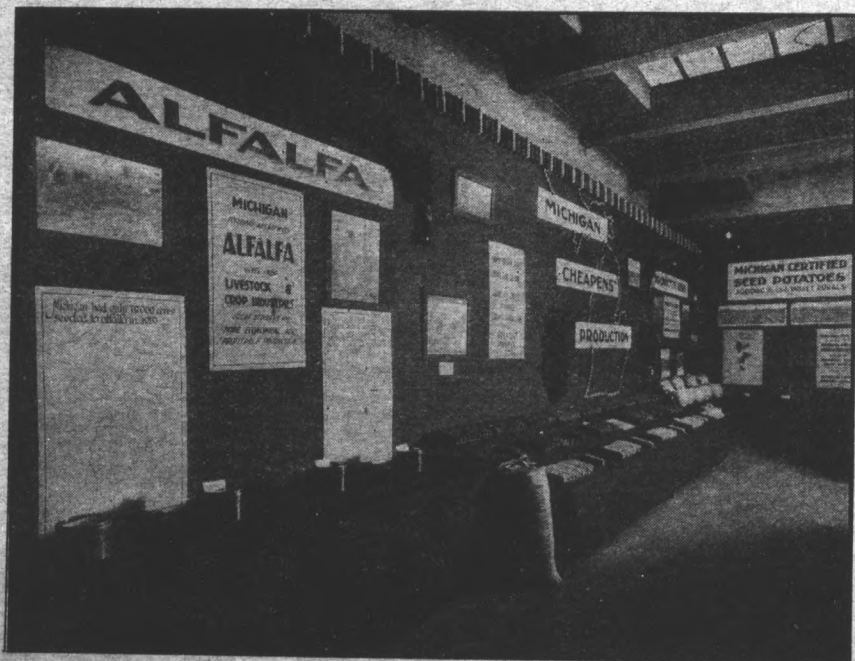
A has a herd of sixteen head of cattle that run on the highway and other people's premises. They have not been tuberculin-tested and those of us who have had our cows tested do not think they ought to be allowed to run at large. Is there any way to compel him to take care of them? Or have them tested? One of the herd is a three-year-old bull. He shows indications of being cross. What steps would be necessary to have him taken care of?—W. V.

The cattle can be impounded as strays. The owner may be sued for trespass. For allowing the bull to run at large the owner is liable to anyone complaining within thirty days to the amount of \$5.00, to be recovered before any justice of the peace, and for double the amount on any repetition of the offense.—Rood.

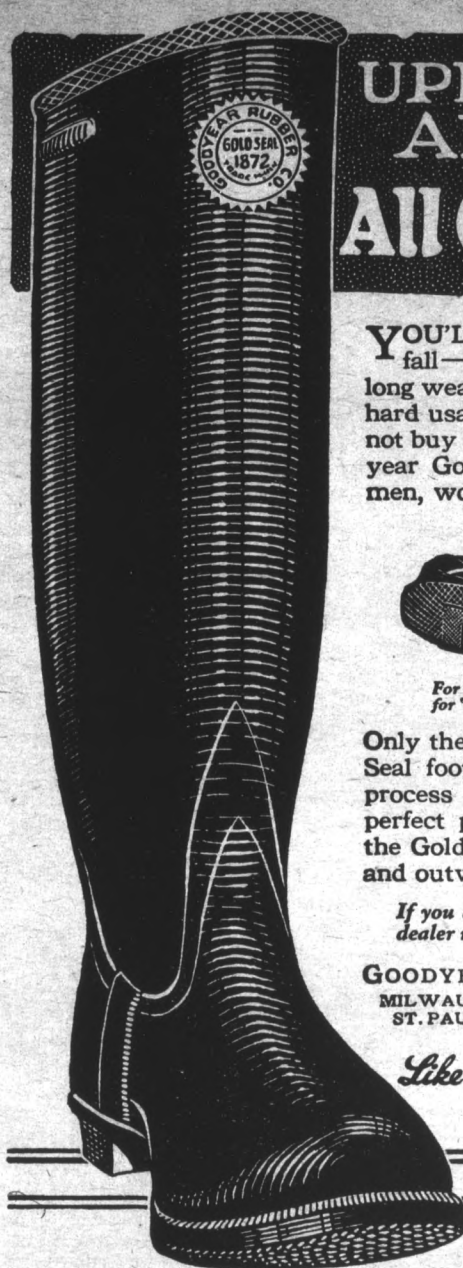
SHEEP KILLED BY DOGS.

Please give me the dog law in regard to sheep. To whom should I apply for damages?—K. S.

Call a justice of the peace, have the loss appraised and get warrant on the town treasurer, to be paid out of dog taxes.—Rood.



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If you don't know the Goodyear Gold Seal dealer near you, write and ask for his name.

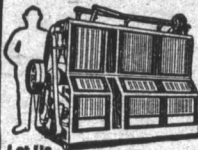
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How Far Have We Travelled?

Our Weekly Sermon—By N. A. McCune

LOOKING back for twelve weeks may not be wasted time. When one has gone over a road he naturally looks at the speedometer, to see what it registers. It is not so easy to register the distance in such work as Bible study, or in any intellectual work. It would be a most wholesome practice if Christians would occasionally take a spiritual inventory. How far, in fact, have you traveled? In a religious meeting where the people take part, the talk usually is of experiences that occurred years ago; when one was converted, or joined the church. It sounds as if nothing of consequence had happened since then. Has there been no growth? How far have you traveled? It is not a matter of years. No, it isn't years. Some are older at thirty than others at sixty. Michael Angelo's motto was, when an old man, "Still I'm learning."



In October Bishop Fallows died in Chicago. He was near ninety. Later Lyman Abbott, of the Outlook, died, and he was near ninety. Both of these men were young, at death. Not in their arteries, probably, but in their minds. Both were ever learning. Abbott's book, published last year, "What Christianity Means to Me," would make a splendid Christmas present. It shows that this great soul was simple as a child in his beliefs, but that he had kept learning up to old age. In fact, we know that he changed his beliefs to a considerable extent after middle life. That is, he adopted new views of old truths. He grew. He traveled. It is a pathetic sight to see a man who has developed in his business sense, but who still holds the ideas and notions of childhood in respect to religion. Looking back, there has been no progress. If school children got no farther ahead in their studies than many folk do in character building, we would refuse to put any more money into school taxes.

RUNNING over the twelve chapters in St. Luke that have been passed during the past twelve weeks, we note some outstanding qualities. To begin with, there is Luke's introduction in which he tells the methods he employed in writing his gospel, the care with which he gathered material.

Then follow the narratives that deal with the birth of John the Baptist and of Jesus. Could anything be more romantic, beautiful? Visits of angels, the glorification of old age, the singing of angelic choirs, visions seen by shepherds, it is not surprising that this has been called the Gospel of Joy. One almost dwells in fairyland, as he reads. It seems too good to be true. It is like some of the stories we tell our children when they climb upon our laps, in its beauty and wonderland qualities. Let me suggest a Christmas present. Send and get a copy of one of the new translations of the New Testament, such as Moffatt's or Weymouth's, for your next year's reading. It will make many dry New Testament pages like new. These may be had at the Methodist Book Concern store, 32 East Elizabeth Street, Detroit, or at the Westminster Press, 125 North Wabash Avenue, Chicago. Or if there is a book store in your town, the order can be sent from there, if there are none in stock.

We would like to know more about Jesus' boyhood, but we are denied that privilege. Only one glimpse is given us, where He goes to Jerusalem at the

age of twelve, and gets into a learned discussion with the doctors and rabbis, there. We spoke a moment ago about growth, in character. Jesus grew. He grew in wisdom, as every boy should. He grew in stature, as every normal boy does. He grew in social qualities, and in the religious, or, as Luke puts it, "in favor with God and men."

WE are told when Jesus began his public ministry. The names of the rulers and petty governors are given. For a long time these names were disputed, but we now know that Luke was right. It is a wonderful description of the beginning of His work. In the fifteenth year of the reign of Tiberius Caesar, Pontius Pilate being governor of Judea, Herod Tetrarch of Galilee, his brother Philip Tetrarch of Iturea and Trachonitis, and Lysanias Tetrarch of Abilene, in the high priesthood of Annas and Caiaphas—a voice in the desert!

When one asks what the temptation in the wilderness meant, he is getting into deep waters. It meant many things, but this is enough for us today: It meant that Jesus had to think out, in intense thought and alone, the problem of his earthly mission. Would He follow the general idea that was held concerning the Messiah, that he would be a conquering monarch who would make the Jews supreme, or would He be the suffering One, as painted by Isaiah, and thus bring life to the world? Should selfishness or altruism be His ideal? This conception of His mission as broad, as reaching out to all classes and races, soon brought Him into conflict with the narrow and bigoted conceptions of His fellow countrymen.

Preaching at Nazareth, his boyhood home, He was almost murdered because He intimated that the Jews were not the only race that God favored. As time goes on, He slowly gathered about Him a band of disciples, and a representative band it was, with members in it from several classes of society that ordinarily were antagonistic to each other. Very slowly they got his point of view, and their former prejudices were swept away.

LUKE'S gospel has been called the gospel of the poor. He is particular to bring in the poor and oppressed many times, and he gives Christ's message to them. "Blessed are you poor," He cries, "Because the kingdom of heaven is yours. Blessed are you who hunger now, because your hunger shall be satisfied." Luke alone of the evangelists tells of the poor widow at Nain, and how she had lost her son, and Christ's restoration of him to life. He alone relates how the poor woman of the street came into rich Simon's home (not Simon Peter) at a feast, and how light and forgiveness were brought into her life.

Luke was a physician. Hence he was always interested in the forms of sickness which were cured by the Master. Not having been an eyewitness himself, he took pains to make inquiries as to the diseases which yielded to the touch of healing. Note how he describes the symptoms of the demoniac in the eighth chapter, and the maniac boy in the ninth. His description of the cure of Jairus' daughter is one of the most beautiful passages in Holy Writ.

SUNDAY SCHOOL LESSON FOR DECEMBER 31.

REVIEW:—Golden Text, "The Spirit of the Lord is upon me, because He hath anointed me to preach good tidings to the poor."—Luke 4:18.

The Fruit Grower's Best Bet

(Continued from page 685).

Mr. Bloom has brought out the real reasons for organization and shown in a very few words why western fruit is capable of demanding the high price which it does on our eastern markets. Michigan growers can not hope to combat their invasion successfully until they have organized and are in position to furnish the market demands.

Organization cannot go over without standardization. "Standardization is the definite goal of every industry of consequence," said Mr. W. P. Hartman, director of the State Bureau of Foods and Standards. "Standardization in marketing is of no greater importance than in actual production." Standardization of our marketing grades and of the varieties which we raise is of very great importance as the American public demands a standardized product and if any marketing organization is to succeed it must be built upon a standardized product.

"We are enforcing the apple grade law to the best of our ability and we are accomplishing some far-reaching results," said Mr. Hartman. Every one of the growers who have had to be fined for their offences have, according to Mr. Hartman, left the courtroom firm in their conviction that the grading laws are a good thing for the growers. The grading laws are being enforced and are doing their part in the establishment of a standardized and dependable product, which part will increase quite materially in the next year or two.

Although the establishment of grades and a standardized product is fundamental for success, it is but the means to an end and not the end in itself. A standardized product will not bring about the proper feeding of markets in accordance with the prices which they have to offer. It requires a central

marketing bureau having local organizations equipped with packing and storing facilities to get the most from a standardized product.

"Not a cent for Michigan's apples but millions for advertising this and that automobile, corn flakes, or other things made or grown in the same state," was the statement made by Mr. Lewis in his talk to the growers. He told of the demand which the advertising of the California Fruit Growers' Exchange and other exchanges of the west had created all over the country for their oranges, lemons, walnuts, prunes, and raisins.

But come to think about it, this demand is for a definite grade of fruit put up in a standard package and available at a definite time and place. Just this last season a buyer from one of the largest chain grocery concerns in the country desired to purchase from twenty-five to fifty carloads of apples per week. He wanted Michigan fruit but he had to have it put up in boxes and each box had to be of a certain grade and contain the same number of apples. There was no one in the state who could supply him, as no one could guarantee the grade and the packing of a definite number of apples per box.

The great demand for western apples would be absolutely worthless to the fruit growers of Washington and Oregon if they did not have a standardized product and a centralized marketing organization which is constantly feeling the market's pulse, to satisfy that demand. Mr. Bloom said, "Consumers demand quality first, last, and all the time. Then come attractive packing and grading. There is always a market for high-grade fruit, but this can be augmented by judicious advertising."

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LET US TAN YOUR HIDE.

Horse or Cow hide, Calf or other skins with hair or fur on, and make them into coats (for men and women), robes, rugs or gloves when so ordered; or we can make your hides into Oak Tanned Harness or Slaughter Sole or Belt Leather; your calfskins into Shoe Leather, colors Gun Metal, Mahogany Russet or lighter shade. Calfskins tanned in the lighter shades of shoe leather, also make elegant stand and table covers; great for birthday, wedding and holiday gifts.

LET US FIX YOUR WORN FURS

fashion, repair and reshape them if needed. Furs are very light weight, therefore it would cost but little to send them in to us by Parcel Post for our estimate of cost, then we will hold them aside awaiting your decision. Any estimate we make calls for our best work. Our illustrated catalog and style book combined gives a lot of useful information. It tells how to take off and care for hides. About our safe dyeing process on cow and horse hides, calf and fur skins. About dressing fine fur skins and making them into neckpieces, muffs and garments. About our sharp reduction in manufacturing prices. About Taxidermy and Head Mounting.

The Crosby Frisban Fur Company,
571 Lyell Ave., Rochester, N. Y.

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HILLSDALE ROBE & TANNING CO., Hillsdale, Mich.

PERMANENCE

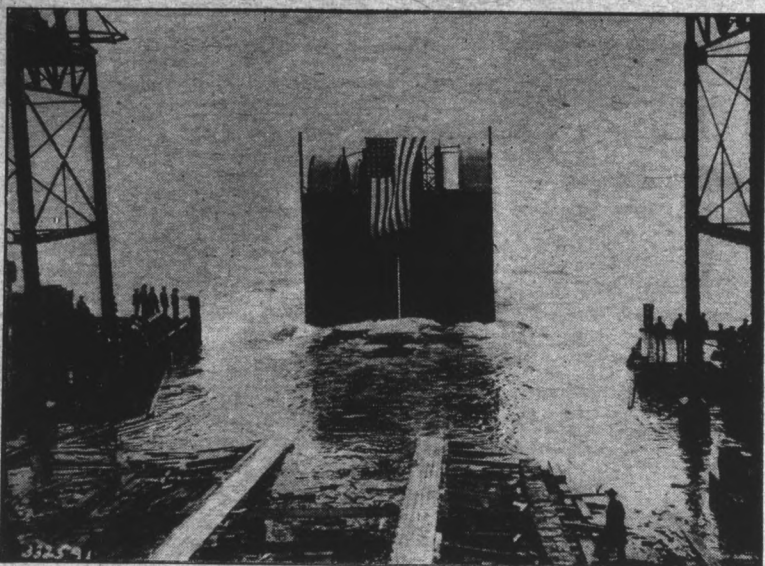
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WORLD EVENTS IN PICTURES



The first of the huge steel caissons was launched recently at the Staten Island shipyards to be used in excavating the vehicular tube between New York and New Jersey.



We don't know what the joke was, but even the "Tiger of France" seemed to be enjoying it as he was leaving the Army War College at Washington.



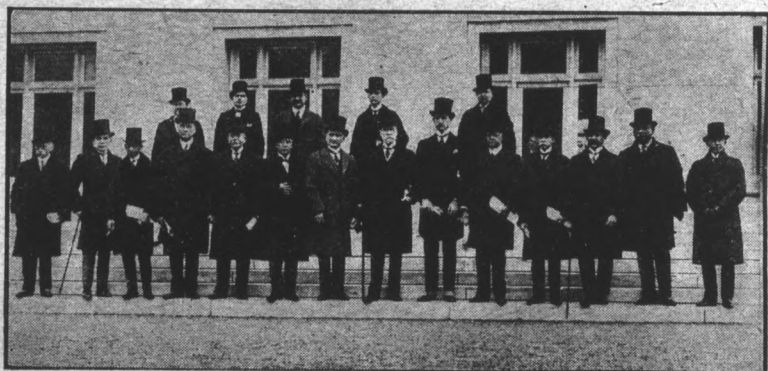
Little Sally Mitchell LeFevre affixed the anti-tuberculosis seals to Mrs. Calvin Coolidge's Christmas mail.



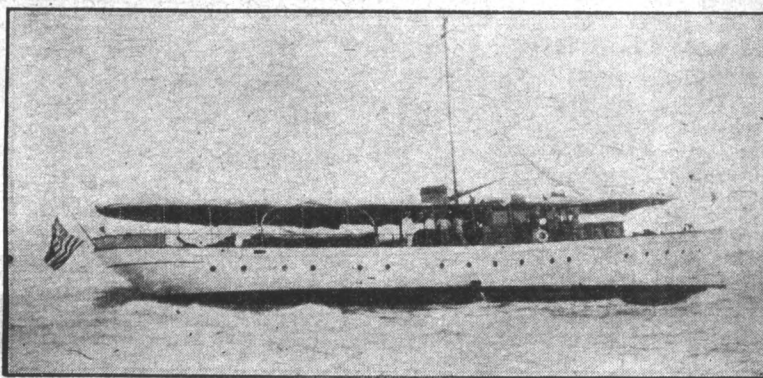
Miss Bess B. Wetherholt is the newly appointed national secretary of American Leg. auxiliary.



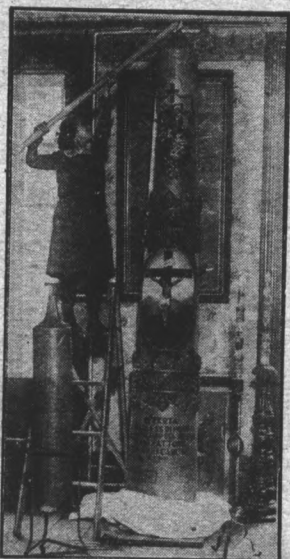
Not a harem, but the wife of Egypt's exile rebel chief and a few of her followers leaving to join her husband.



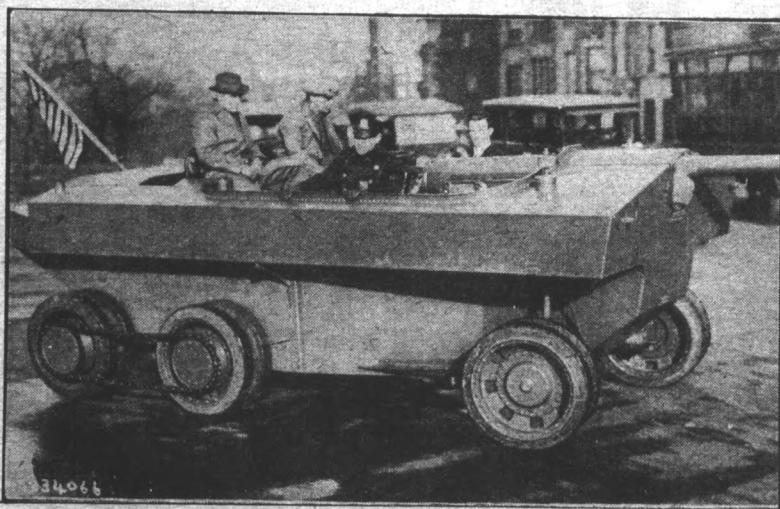
Delegates from five Central American nations met with Secretary of State Hughes and other representatives recently in a conference to promote and continue amity among these nations.



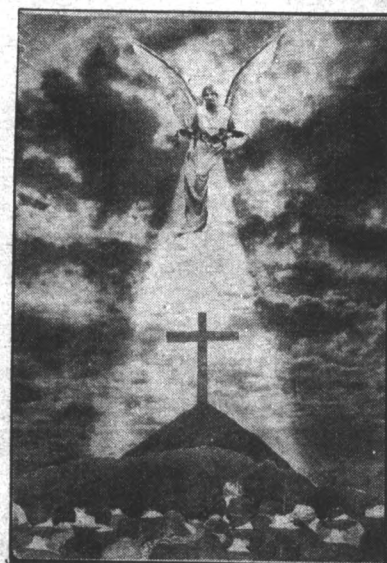
One of the most unusual honeymoon tours in history ended recently when "Speejacks" returned from a forty-thousand-mile voyage that cost nearly \$1,000,000.



Orphans' \$3,700 memorial candle to Enrico Caruso will burn for eighteen centuries.



This new American "amphibious battleship" can speed on land or in water, armoured and armed with 75M. gun, and will carry a crew of ten and food and ammunition for twenty-four hours.



Showing how the spirit of love and faith was depicted on Christmas morning in some countries.

THE CROSS-CUT —By Courtney Ryley Cooper

Copyright, 1921, By Little, Brown & Company

Together, when night came, they bundled their greatcoats about them and pulled their caps low over their ears. Winter had come in earnest, winter with a blizzard raging through the town on the breast of a fifty-mile gale. Out into it the two men went, to fight their way through the swirling, frigid fleece of Kentucky Gulch and upward. At last they passed the guard, huddled just within the tunnel, and clambered down the ladder which had been put in place of the sight-seers on the day of the strike. Then—

Well, then Harry ran, to do much as Fairchild had done, to chuckle and toss the heavy bits of ore about, to stare at them in the light of his carbide torch, and finally to hurry into the new stope which had been fashioned by the hired miners in Fairchild's employ, and stare upward at the heavy vein of riches above him.

"Wouldn't it knock your eyes out?" he exclaimed, beaming. "That vein's certainly five feet wide."

"And two hundred dollars to the ton," added Fairchild, laughing. "No wonder Rodaine wanted it."

"I'll sye so!" exclaimed Harry, again to stand and stare, his mouth open, his mustache spraying about on his upper lip in more directions than ever. A long time of congratulatory celebration, then Harry led the way to the far end of the great cavern. "Ere it is!" he announced, as he pointed to what seemed to both of them never to be anything more than a fissure in the rocks. "It's the thing that saved my life."

Fairchild stared into the darkness of the hole in the earth, a narrow crack in the rocks barely large enough to allow a human form to squeeze within. He laughed.

"You must have made yourself pretty small, Harry."

"What? When I went through there? Sye, I could 'ave gone through the eye of a needle. There were six charges of dynamite just about to go off be'ind me!"

Again the men chuckled as they looked at the fissure, a natural, usual thing in a mine, and often leading, as this one did, by subterranean breaks and slips to the underground bed of some tumbling spring. Suddenly, however, Fairchild whirled with a thought.

"Harry! I wonder—couldn't it have been possible for my father to have escaped from this mine in the same way?"

"E must 'ave."

"And that there might not have been any killing connected with Larsen at all? Why couldn't Larsen have

been knocked out by a flying stone—just like you were? And why—?"

"E might of, Boy." But Harry's voice was negative. "The only thing about it was the fact that your father 'ad a bullet 'ole in 'is 'ead." Harry leaned forward and pointed to his own scar. "It 'it right about 'ere, and glanced. It didn't 'urt 'im much, and I bandaged it and then covered it with 'is 'at, so nobody could see."

"But the gun? We didn't find any."

"E 'ad it with 'im. It was Sissie

ed his head toward the bottom of the shaft, listening intently. "Didn't you 'ear something?"

"I thought so. Like a woman's voice."

"Listen—here it is again!"

They were both silent, waiting for a repetition of the sound. Faintly it came, for the third time:

"Mr. Fairchild!"

They ran to the foot of the shaft, and Fairchild stared upward. But he could see no one. He cupped his

"Search me!" The bucket was at the top now.

A signal from above, and Fairchild lowered it, to extend a hand and to aid the girl to the ground, looking at her with wondering, eager eyes. In the light of the carbide torch, she was the same boyish appearing little person he had met on the Denver road, except that snow had taken the place of dust now upon the whipcord riding habit, and the brown hair which caressed the corners of her eyes was moist with the breath of the blizzard. Some way Fairchild found his voice, lost for a moment.

"Are—are you in trouble?"

"No." She smiled at him.

"But out in a night like this—in a blizzard. How did you get up here?" She shrugged her shoulders.

"I walked. Oh," she added, with a smile, "it didn't hurt me any. The wind was pretty stiff—but then I'm fairly strong. I rather enjoyed it."

"But what's happened—what's gone wrong? Can I help you with anything—or—"

Then it was that Harry, with a roll of his blue eyes and a funny waggle of his big shoulders, moved down the drift toward the stope, leaving them alone together. Anita Richmond watched after him with a smile, waiting until he was out of hearing distance. Then she turned seriously.

"Mother Howard told me where you were," came quietly. "It was the only chance I had to see you. I—I—maybe I was a little lonely or—or something. But, anyway, I wanted to see you and thank you and—"

"Thank me? For what?"

"For everything. For that day on the Denver road, and for the night after the Old Times dance when you came to help me. I—I haven't had an easy time. And I've been in rather an unusual position. Most of the people I know are afraid and—some of them aren't to be trusted. I—I couldn't go to them and confide in them. And—you—well, I knew the Rodaines were your enemies—and I've rather liked you for it."

"Thank you. But—" and Fairchild's voice became a bit frigid—"I haven't been able to understand everything. You are engaged to Maurice Rodaine."

"I was, you mean."

"Then—"

"My engagement ended with my father's death," came slowly—and there was a catch in her voice. "He wanted it—it was the one thing that held the Rodaines off him. And he was dying slowly—it was all I could do to help him, and I promised. But

A New Year's Toast

By Teresa G. Morris

A Toast, a Toast, to the GLAD NEW YEAR!

Let merriment reign and dispel visions drear.
With holiday spirit and new-born content,
Let's widen the circle of those pleasure-bent.With wassail and bowl did our ancestors drink;
In aqueous memories most of us think;
But whether with wine or with water we pledge,
All rancor and hatred we now fully dredge.Come, come, let's be joyful; let's sing and not sigh.
The New Year is calling—so never say die!
Let's hope, aye and hustle; let's urge, yes, and pray,
For strength to look upward and blaze straight the way.So here's to the New Year—to one and to all,
Let none look behind him, or cling to the wall.
No chance for the laggard, the slothful, the slow—
Life calls us with fervor: Attention! Let's go!Then hurrah for the ones who will win the good race;
And hurrah for the smile on the game loser's face!
While striving and running, let's give hearty cheers
To our Friend Opportunity, Pal o' New Year's!

Larsen's. No, Boy, there must 'ave been a fight—but don't think that I mean your father murdered anybody. If Sissie Larsen attacked 'im with a gun, then 'e 'ad a right to kill. But as I've told you before—there wouldn't 'ave been a chance for 'im to prove 'is story with Squint working against 'im. And that's one reason why I didn't ask any question. And neither did Mother 'Oward. We were willing to take your father's word that 'e 'adn't done anything wrong—and we were willing to 'elp 'im to the limit."

"You did it, Harry."

"We tried to—" He ceased and perk-

hands and called:

"Who wants me?"

"It's me." The voice was plainer now—a voice that Fairchild recognized immediately.

"I'm—I'm under arrest or something up here," was added with a laugh. "The guard won't let me come down."

"Wait, and I'll raise the bucket for you. All right, guard!" Then, blinking with surprise, he turned to the staring Harry. "It's Anita Richmond," he whispered. Harry pawed for his mustache.

"On a night like this? And what the deuce is she doing 'ere, any'ow?"

AL ACRES—Al Learns of a Way to Farm Profits.

—By Frank R. Leet.



—when he went—I felt that my—my trying to think out a plan—and I duty was over. I don't consider myself bound to him any longer."

"You've told Rodaine so?" "Not yet. I—I think that maybe that was one reason I wanted to see some one whom I believed to be a friend. He's coming after me at midnight. We're going away somewhere."

"Rodaine? Impossible!" "They've made all their plans. I—I wondered if you—if you'd be some—where around the house—if you'd—"

"I'll be there. I understand." Fairchild had reached out and touched her arm. "I—want to thank you for the opportunity. I—yes, I'll be there," came with a short laugh. "And Harry too. There'll be no trouble—from the Rodaines!"

She came a little closer to him then and looked up at him with trustful eyes, all the brighter in the spluttering light of the carbide.

"Thank you—it seems that I'm always thanking you. I was afraid—I didn't know where to go—to whom to turn. I thought of you. I knew you'd help me—women can guess those things."

"Can they?" Fairchild asked it eagerly. "Then you've guessed all along that—"

But she smiled and cut in. "I want to thank you for those flowers. They were beautiful."

"You knew that too? I didn't send a card."

"They told me at the telegraph office that you had wired for them. They—meant a great deal to me."

"It meant more to be to be able to send them." Then Fairchild stared with a sudden idea. "Maurice's coming for you at midnight. Why is it necessary that you be there?"

"Why—" the idea had struck her too—"it isn't. I—I just hadn't thought of it. I was too badly scared, I guess. Everything's been happening so swiftly since—you made the strike up here."

"With them?" "Yes, they've been simply crazy about something. You got my note?"

"Yes."

"That was the beginning. The minute Squint Rodaine heard of the strike, I thought he would go out of his head. I was in the office—I'm vice-president of the firm, you know," she added with a sarcastic laugh. "They had to do something to make up for the fact that every cent of father's money was in it."

"How much?" Fairchild asked the question with no thought of being rude—and she answered in the same vein.

"A quarter of a million. They'd been getting their hands on it more and more ever since father became ill. But they couldn't entirely get it into their own power until the Silver Queen strike—and then they persuaded him to sign it all over in my name into the company. That's why I'm vice-president."

"And is that why you arranged to buy this mine?" Fairchild knew the answer before it was given.

"I? Arrange it—I never thought of such a thing."

"I felt that from the beginning. An effort was made through a lawyer in Denver who hinted you were behind it. Some way, I felt differently. I refused. But you said they were going away?"

"Yes. They've been holding conferences—father and son—one after another. I've had more peace since the strike here than at any time in months. They've both excited about something. Last night Maurice came to me and told me that it was necessary for them all to go to Chicago where the head offices would be established, and that I must go with him. I didn't have the strength to fight him then—there wasn't anybody near by who could help me. So I—I told him I'd go. Then I lay awake all night,

"I'm glad." Fairchild touched her small gloved hand then, and she did not draw it away. His fingers moved slowly under hers. There was no resistance. At last his hand closed with a tender pressure—only to release her again. For there had come a laugh—shy, embarrassed, almost fearful—and the plea:

"Can we go back where Harry is? Can I see the strike again?"

Obediently Fairchild led the way, beyond the big cavern, through the cross-cut and into the new stope, where Harry was picking about with a gad, striving to find a soft spot in which to sink a drill. He looked over his shoulder as they entered and grinned broadly.

"Oh," he exclaimed, "a new miner!"

"I wish I could help you," she said.



Drawn by Pamela Lott, Coldwater, Michigan.

"You've done that, all right, all right." Harry waved his gad. "E told me—about the note!"

"Did it do any good?" she asked the question eagerly. Harry chuckled.

"I'd 'ave been a dead mackerel if it 'adn't," came his hearty explanation. "Where you going at all dressed up like that?"

"I'm supposed," she answered with a smile toward Fairchild, "to go to Center City at midnight. Squint Rodaine's there and Maurice and I are supposed to join him. But—but Mr. Fairchild's promised that you and he will arrange it otherwise."

"Center City? What's Squint doing there?"

"He doesn't want to take the train from Ohadi for some reason. We're all going east and—"

But Harry had turned and was staring upward, apparently oblivious of their presence. His eyes had become wide, his head shot forward, his whole being had become one of strained attention. Once he cocked his head, "Look out!" he exclaimed. "Urry, look out!"

"But what is it?"

"It's coming down! I 'eard it!" Excitedly he pointed above, toward the black vein of lead and silver. "Urry for that 'ole in the wall—'urry, I tell you!" He ran past them toward the fissure, yelling at Fairchild. "Pick 'er up and come on! I tell you I 'eard the wall moving—it's coming down. (Continued next week.)

Michigan Farmer Club List

THESE PRICES SUBJECT TO CHANGE WITHOUT NOTICE

EXPLANATION:—Figures in the first column represent the regular prices of other publications.

The figures in the second column give our prices for subscriptions to the Michigan Farmer and the other publications for one year.

The figures in the third column give the prices at which other publications can be added, if more than one is wanted in combination with Michigan Farmer. EXAMPLE:—We will send the Michigan Farmer and Detroit Free Press each one year for only \$4.50. If the same party wishes the McCall's Magazine, it will cost 60c extra, or \$5.10 for this combination.

ABOUT DAILY PAPERS:—Our rates on daily papers are made for subscribers living on R. F. D. routes, or in towns where the daily does not maintain regular news boys or carrier service. If in doubt, send us your order, and we will have it filled, if possible. Our rates on Michigan daily papers apply to the state of Michigan only.

DAILY (6 a week)	1	2	3
Ann Arbor Times News.....	\$3.00	\$3.50	\$2.75
Albion Evening Record.....	3.00	3.50	2.75
Battle Creek Enquirer-News.....	4.00	4.50	3.75
Battle Creek Moon-Journal.....	4.00	4.50	3.75
Big Rapids Pioneer.....	3.00	3.50	2.75
Bay City Times Tribune.....	4.00	4.50	3.75
Detroit Free Press.....	4.00	4.50	3.75
Detroit News.....	4.00	4.50	3.75
Detroit Times.....	4.00	4.50	3.75
Flint Journal.....	4.00	4.50	3.75
Grand Rapids Press.....	4.00	4.50	3.75
Grand Rapids Herald.....	4.00	4.50	3.75
Grand Rapids News.....	4.00	4.50	3.75
Jackson Citizens Patriot.....	4.00	4.50	3.75
Jackson News.....	4.00	4.50	3.75
Kalamazoo Gazette.....	4.00	4.50	3.75
Lansing State Journal.....	4.00	4.50	3.75
Lansing Capitol News.....	4.00	4.50	3.75
Monroe News.....	3.00	3.50	2.75
Manistee News Advocate.....	5.00	5.00	4.75
Niles Daily Star.....	4.00	4.50	3.75
Owosso Argus-Press.....	4.00	4.50	3.75
Pontiac Daily Press.....	3.00	3.50	2.75
Port Huron Times Herald.....	4.00	4.50	3.75
Sault Ste. Marie Evening News.....	4.00	4.50	3.75
Saginaw News Courier.....	4.00	4.50	3.75
Traverse City Record Eagle.....	4.00	4.00	3.75
Toledo Daily Blade.....	4.00	4.50	3.75
Toledo News-Bee.....	4.00	4.50	3.75
Toledo Times.....	4.00	4.50	3.75
Fort Wayne News Sentinel.....	4.00	4.50	3.75
Fort Wayne Journal Gazette.....	4.00	4.50	3.75
South Bend Tribune (7 days a week).....	5.00	5.50	4.75
Chicago Herald Examiner.....	6.00	6.25	5.75
Chicago Daily Drovers Journal.....	5.00	6.00	5.00
Chicago Tribune.....	7.50	7.50	7.00
TRI-WEEKLY (3 a week)			
New York, N. Y. World.....	1.00	1.60	.75
SEMI-WEEKLY (2 a week)			
Chelsea Tribune.....	2.00	2.50	1.75
Mason County Enterprise.....	2.00	2.50	1.75
WEEKLY			
Almont Herald.....	1.50	2.25	1.50
Bellevue Gazette.....	1.50	2.25	1.50
Bloomfield Advance.....	1.50	2.25	1.50
Capper's Weekly.....	1.00	1.25	.50
Clinton Co. Republican.....	1.50	2.00	1.25
Chesaning Argus.....	1.75	2.50	1.75
Charlotte Leader.....	1.50	2.25	1.50
Cedar Springs Liberal.....	1.50	2.25	1.50
Clare Currier.....	2.00	2.75	2.00
Elk Rapids Progress.....	2.00	2.75	2.00
Galesburg Argus.....	1.50	2.25	1.50
Lenox Standard.....	1.50	2.00	1.50
Lowell Ledger and Alto Solo.....	2.00	2.75	1.75
Millington Herald.....	2.00	2.50	1.75
Missaukee Republican.....	1.50	1.75	1.00
Munising News.....	2.50	3.00	2.25
Manton Tribune Record.....	2.00	2.50	1.75
Noble Co. Ind. Democrat.....	1.50	2.00	1.25
Portland Observer.....	1.50	2.00	1.25
St. Johns News.....	1.50	2.00	1.25
Sault Ste. Marie News and U. P. Farm Journal.....	2.00	2.00	1.25
Sanilac County Republican.....	1.50	2.25	1.50
South Lyons Herald.....	1.50	2.00	1.25
Toledo Weekly Blade.....	.75	1.40	.50
Ypsilanti Record.....	1.00	1.50	.75
CATTLE, SHEEP, SWINE, POULTRY, ETC.			
American Bee Journal.....	\$1.50	\$2.00	\$1.25
American Canary Journal.....	2.00	2.50	1.75
American Fruit Grower.....	1.00	1.25	.25
American Swineherd.....	1.00	1.50	.65
American Sheep Breeder.....	1.00	1.50	.65
American Poultry Advocate.....	1.00	1.50	.65
American Thresherman.....	1.00	1.50	.65
American Herford Journal.....	1.00	1.75	.85
Breeder's Gazette.....	1.00	1.50	.60
Bee Keeper's Review.....	1.00	1.75	.85
Chester White Journal.....	1.00	1.60	.70
Capper's Farmer.....	.50	1.25	.25
Cloverland Magazine.....	1.00	1.50	.75
Iowa Corn Belt Farmer.....	.50	1.25	.30
Everybody's Poultry Magazine.....	.75	1.40	.50
Farm Mechanics.....	1.00	1.50	.75
Fruit Belt.....	.50	1.25	.25
Game Breeder.....	2.00	2.00	1.25
Garden Magazine.....	3.00	3.00	3.00
Gleanings in Bee Culture.....	1.00	1.85	.90
Huntsley Breeder's Journal.....	2.00	2.60	1.75
Holstein-Friesian Register.....	1.00	1.50	.70
Hoard's Dairyman.....	1.00	1.75	.85
International Plymouth Rock.....	.50	1.25	.30
Inland Poultry Journal.....	1.00	1.50	.60
Jersey Bulletin and Dairy World.....	2.00	2.60	1.75
Market Growers Journal.....	1.50	1.75	1.00
Pet Stock Journal—Hares & Rabbits.....	.50	1.25	.30
Potato Magazine.....	1.00	1.65	.75
Poultry Guide.....	.50	1.25	.30
Modern Poultry Breeder.....	.50	1.25	.25
Poultry Item.....	1.00	1.50	.60
Poultry Keeper.....	.50	1.25	.30
Poultry Success.....	1.00	1.50	.60
Poultry Tribune.....	1.00	1.50	.60
Power Farming.....	1.00	1.50	.50
Rabbit & Poultry Journal.....	1.00	1.50	.45
Reliable Poultry Journal.....	1.00	1.50	.45
Swine Breeders Journal.....	.50	1.25	.35
Swine World.....	1.00	1.50	.60
Trotter & Paecer.....	3.00	3.00	2.25
Tractor & Gas Engine Review.....	.50	1.25	.35
HOUSEHOLD MAGAZINES, ETC.			
Adventure.....	\$6.00	\$6.25	\$6.00
Ainslee's Magazine.....	2.00	2.70	2.00
All Outdoors.....	2.50	3.00	2.25
American Golfer.....	5.00	5.00	4.50
American Boy.....	2.00	2.50	1.75
American Builder.....	2.00	2.00	1.50
American Cookery.....	2.50	3.00	2.25
American Magazine.....	2.50	3.00	2.25
American Woman.....	.50	1.25	.30
Argosy—All Story Weekly.....	4.00	4.60	3.75
Beautiful Womanhood.....	3.00	3.65	2.00
Boy's Magazine.....	1.00	1.50	.50
Boy's Life.....	2.00	2.35	1.50
Commonwealth.....	2.00	2.40	1.75
Century.....	5.00	5.00	4.50
Christian Herald.....	2.00	2.00	1.50
Christian Standard.....	2.00	2.50	1.65
Christian Endeavor World.....	2.00	2.75	1.85
Colliers Weekly.....	2.50	2.75	2.50
Commoner (Bryan's).....	1.00	1.50	.75
Country Life.....	5.00	5.00	4.50
Current Events.....	.60	1.50	.55
Current Opinion.....	4.00	4.00	3.50
Cosmopolitan.....	3.00	3.00	3.00
Dearborn Independent (Ford's).....	1.50	2.00	1.10
Delinquent.....	2.00	2.60	1.75
Designer and Woman's Magazine.....	1.50	2.15	1.25
Detective Story Magazine.....	6.00	6.40	5.50
Educational Review.....	3.00	3.50	2.75
Etude.....	2.00	2.30	1.50
Everybody's.....	2.50	3.00	2.25
Every Child.....	1.50	1.75	.75
Film Fun.....	2.00	2.40	1.50
Forest and Stream.....	3.00	3.00	2.50
Gentlewoman.....	20	1.10	.15
Good Stories.....	25	1.15	.15
Good Housekeeping.....	2.50	2.50	2.50
Health Builder.....	3.00	3.00	2.25
Household Magazine (Capper's).....	1.50	1.15	.15
Harper's Bazaar.....	4.00	4.00	4.00
Hearst's Magazine.....	3.00	3.00	3.00
Hunter, Trader & Trapper.....	2.00	2.50	1.50
Independent.....	3.00	3.00	2.25
Illustrated World.....	3.00	3.25	2.75
Judges Weekly.....	5.00	5.00	4.50
Junior Home Magazine.....	6.00	6.00	5.50
Love Story.....	6.00	6.00	5.50
Life.....	5.00	5.25	4.75
Literary Digest.....	4.00	4.90	3.90
Little Folks Magazine.....	2.00	2.00	1.25
McCall's Magazine.....	1.00	1.50	.60
McClure's Magazine.....	3.00	3.00	2.50
Metropolitan.....	3.00	3.00	2.75
Modern Priscilla.....	2.00	2.00	1.50
Mother's Magazine.....	25	1.15	.15
Motor Magazine.....	4.00	4.00	4.00
Motor Boating.....	3.00	3.00	3.00
Munsey's Magazine.....	3.00	3.75	2.75
National Brain Power.....	3.00	3.00	2.25
National Sportsman.....	1.00	1.50	.60
Outdoor Life.....	2.00	2.50	1.75
Ohio Teacher.....	1.25	1.90	1.00
Outing.....	3.00	3.25	2.50
Outlook.....	5.00	5.25	4.50
Outlook Recreation.....	2.50	2.50	2.00
People's Story Magazine.....	4.00	4.50	3.75
Pathfinder.....	1.00	1.50	.60
People's Home Journal.....	1.25	1.75	.85
People's Popular Monthly.....	35	1.20	.20
Picture Play.....	2.00	2.70	1.75
Popular Magazine.....	4.00	4.50	3.75
Popular Science Monthly.....	2.50	3.00	2.25
Presbyterian Banner.....	1.00	1.50	.60
Pictorial Review.....	1.50	1.75	.85
Physical Culture.....	3.00	3.00	2.25
Review of Reviews.....	4.00	3.50	3.00
Radio Broadcast.....	3.00	3.00	2.50
St. Nicholas.....	4.00	4.25	3.50
School World.....	4.00	4.25	3.75
Scientific American.....	4.00	4.25	3.75
Scribner's Magazine.....	4.00	3.75	3.50
Sunday School Times.....	2.00	2.50	1.75
Short Stories.....	5.00	5.00	4.25
Success Magazine.....	2.50	2.50	2.00
Today's Housewife.....	1.00	1.50	.60
True Story.....	4.00	4.00	3.00
Topnotch.....	3.00	3.70	2.75
United Presbyterian.....	2.50	3.25	2.25
Violinist.....	2.00	2.25	1.50
Western Story Magazine.....	6.00	6.40	5.50
Woman's Home Companion.....	1.50	2.25	1.25
Woman's World.....	5.00	5.00	4.50
World's Work.....	4.00	4.00	3.00
World and Work.....	1.00	1.60	.75
Wide World.....	2.00	2.80	2.00
Youth's Companion.....	2.50	3.00	2.00

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THE MICHIGAN FARMER,
Detroit, Michigan

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Woman's Interests



Decorations of an Up-to-Date Home

Rules for Furniture Arrangement and the Selection of Wall Paper and Draperies

INTERIOR decoration is a term which to some holds a vast amount of mystery and science. But with a little careful thought and study of one's environment to form a conception of our home as we should like it, one of modest means may create an atmosphere of good taste that will be surprising.

Home means one thing to the wife and something quite different to the husband. In order to successfully meet the needs of modern life, a home must extend a restful feeling to the tired husband and be a source of cheer, inspiration and companionship to others.

Walls are to be considered as more than being merely the sides of a room. They are its background and form the setting within which one composes and arranges the furnishings. Besides doing duty as a setting for a room the walls may be a decoration in themselves when covered with a wallpaper of conspicuous design. In this case pictures will lose their decorative value and are confusing. Therefore they should be avoided. On the other hand, walls covered with plain paper make a very effective setting for pictures. Provided the choosing of pictures is given a little care and consideration, their beauty is invaluable to the artistic decoration of the room. Since these two functions of wall paper cannot successfully be performed at one time, one or the other must be chosen.

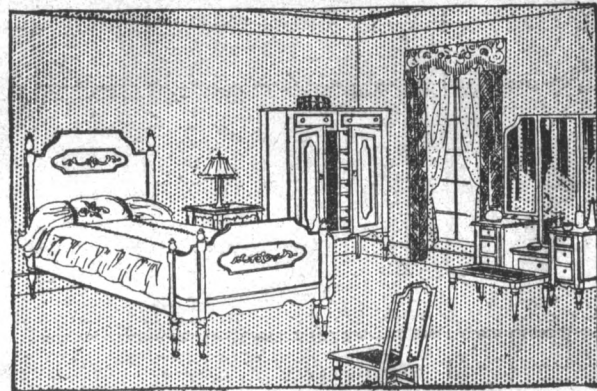
Windows may be called the eyes of a room through which it expresses itself. They have the power to make a room bright and cheery or dark and cold. If the walls are plain the hangings at the windows and draperies at the doors should be of a pattern design of a contrasting shade. If the walls have a distinct decorative value, then the draperies of the room should be in a blending tone of plain color. It is not always necessary to have pattern draperies in a room which has a plain background, as sufficient character may be produced by plain contrasting color in the hangings.

The draperies for the doorway or the overdrapes at the windows depend a good deal upon the character of the room. If the room is inclined to be dark, light transparent draperies will be in keeping. Heavy draperies detract from the spacious appearance of a room and help to give it a cozy atmosphere. These should be in the same color scheme as the overdrapes and must be cognate in design.

As already mentioned, windows are the eyes of a room, but they are as eyes with the eyebrows shaved off if they do not possess curtains. No one article of furnishings adds more to the general effect than do the curtains and draperies.

Their purpose is not to exclude the light but rather to diffuse it through the room and to soften the lines of the windows. Cheesecloth, which has chosen the dignified name of Euclid Batiste in cream, white or unbleached, is a very inexpensive, as well as popular curtain material. Swiss bobbinette, Brussels net, scrim and marquisette also make suitable material for curtains. Dainty white curtains with an inch or two-inch hem of contrasting color in sateen will add a touch of col-

or. Dotted muslin with a ruffle and draped to the side of the window, has become very fashionable during the past season. A very important thing



Plain Wall Paper with White Curtains and Figured Overdrapes Are Pleasing for the Bedroom.

to bear in mind here is not to skimp the width of the material, as nothing will detract from their appearance more than the absence of ample fullness.

The kind of furniture and its ar-

range are other very important items to be considered in the modern home. When speaking of the kind of furniture, it is not necessary to infer that in order to make it a modern home the furniture store must be visited immediately. With a little study one can obtain pleasing results from many of the pieces already at hand. By re-upholstering, staining, varnishing and painting much of the old furniture can be made to look like new. It is well to take an inventory of what you have and study to see just what can be accomplished.

The arrangement of the furniture in a room determines whether it is to be cozy, inviting and homelike, or formal, cold and unattractive. Who has not observed rooms where the corners were cut off by large pieces of furniture, while the center

was occupied by a huge library table and the chairs placed in hit-and-miss fashion? In such a case the atmosphere the home-maker wished to create was probably one of cozy homeliness, but because of apparent lack of thought and consideration for an artistic arrangement it looked as if a whirlwind had struck it.

When one enters a room it should have the appearance of being well balanced. The large pieces of furniture should not all be at one end or along one side. The piano may be at one end of the room, but the davenport should be some distance away from it and the large library table not close to either. The underlying principle for arrangement of furniture is that heavy pieces, such as davenports, couches, large tables, pianos, bookcases, should parallel the sides of a room. The chairs should be grouped with an idea of convenience. Let the sewing chair with work basket be placed where the light

Household Service

Use this Department to Help Solve Your Household Problems. Address all Letters to Household Editor, Michigan Farmer, Detroit, Mich.

HOUSEHOLD ACCOUNTS.

I have been on the farm nearly three years and would like to know how to properly keep books for the household.—Mrs. R. H. P.

Keeping books for the household may be made as simple or as complicated as one may wish, but in most cases the simpler form is preferred. A suitable book for this purpose may be purchased at any book store. If the book is not already divided under suitable heads this should be done. Under their respective divisions itemize the expenditures made for clothing of the individual members of the family, food, fuel, amusements and under the miscellaneous column may be listed the minor expenses. This may be called the debit side, while on the credit side may be entered under their respective heads the items which go to pay the expenses of the household. These may be the proceeds from eggs, butter, milk, poultry or other products. The debit and credit side may be totaled each month, and in this way the housewife will know where she stands financially.

A WHITE WOOLEN SWEATER.

I have a white wool sweater but cannot wear it because the lint stick to everything. Is there anything I can do to help this?—Miss M. S.

There is nothing that will prevent the lint or fine wool from clinging to any dark wool goods with which it comes in contact. After the white sweater is washed, this trouble will not be quite so bad, but the lint will still continue to adhere. About the only remedy there seems to be for a trouble

like this is to wear something light with a white sweater on which the lint will not show.

APPLE BUTTER WITH SWEET CIDER.

Would like to know how to make apple butter with sweet cider.—Mrs. J. B.

Pare, core and quarter the desired quantity of apples, allowing one-third of sweet to two-thirds of sour apples. Boil sweet cider until it is reduced to half while cider is boiling, add apples until the mixture is the desired thickness. Cook slowly, stirring constantly and skimming when necessary. When apples begin to separate from the cider, take two pounds of sugar to each bushel of apples used, and add a little ground cinnamon and boil until it remains a smooth mass, when a little is cooled. Usually one and one-half bushels of apples are enough for one and one-half gallons of boiled cider.

TO RENEW BLACKBOARD.

Our seven-year-old son has a blackboard which he enjoys very much. The surface has begun to wear off. Can you tell me how to resurface it?—Mrs. A. D.

To renew the surface of a blackboard dissolve four ounces of glue in one and one-half pints of hot water and add three ounces of flour of emery and enough lampblack to color. Stir until smooth and apply with the end of a roll of woolen goods. Three coats will be required for the best results. A commercial preparation may be purchased at hardware stores for this same purpose.

Making Pin Money

AT this time when economy is a well-worn word in every farm home, the housewife exerts every effort to devise means of making pin money.

Perhaps you have thought of a way to make your pin money that your neighbor has not worked out. Just send us a letter telling all about the way you do it.

For the best letter we will award an aluminum double boiler. The second prize will be a sixteen-inch aluminum serving tray, while the third, fourth and fifth prizes will be aluminum stew dishes with covers.

Address all letters to Household Editor, Michigan Farmer, Detroit, Michigan, before January 5.

is good, and the reading chair convenient to the reading lamp and magazine stand.

Above all, it is really up to the home-maker to exercise her individuality and express her personality in her home to the extent that rays of inspiration, companionship and harmony shine forth.

SQUASH MUFFINS.

Two-thirds of a cupful of cooked squash, two tablespoonfuls of melted butter, one teaspoonful of salt, two well-beaten eggs, one cupful of milk, one-fourth cupful of sugar, a grate of nutmeg, three teaspoonfuls of baking powder, and two and three-fourths cupfuls of flour. Add the milk to the squash then add the sugar and the well-beaten eggs. Sift together thoroughly the flour, salt, nutmeg and baking powder and add to the first mixture, then add the butter and mix gently. Divide into hot buttered muffin or gem pans, and bake for one-half hour in a moderate oven.—L. A. L.

Labor Saving Hints

By the Prize Winners

EVEN in the busy Xmas season just passed many housewives found time to favor "Woman's Interests" with a letter. Numerous time and labor-savers were received but some failed to give name and address. Only the initials and town will be published, but it is necessary to send name and address in order to enter your letter in the contest.

Extending greetings for a bright and happy New Year.

First Prize.

Mrs. A. S. B., Milford, Michigan.

How many stew pumpkin in the old way of cutting up and peeling while raw? I have solved that problem by cutting up in pieces small enough to be laid into a kettle and nearly covered with water. Put on cover and let cook until tender. Drain, cool and peel off thin skin. Mash with potato masher and pumpkin is ready for use.

For lamp chimneys I take a damp cloth and dip it into powdered window cleaner and smear chimneys inside and out. Later in the day when I find time I polish with a dry cloth in about a quarter of the time needed to dry a wet chimney.

Painted floors and small rugs for bedrooms save a lot of hard work and backache. I use an old worn-out garment, put on the mop stick and occasionally saturate it with furniture polish to keep all the lint and dust down, which is so hard to clean from rugs and carpets.

Second Prize.

Mrs. M. E., Bath, Michigan.

The handiest and most labor and time-saver I have is a built-in woodbox. It holds one-third of a cord of wood and can be filled from the back room or outside. It closes with a door, and

besides being a labor and time-saver, it saves my temper considerably because it keeps the litter and dirt out of the kitchen. My matches, oil and old papers are kept on a shelf inside the woodbox. I can start a fire in short order, and I made this woodbox all myself.

Third Prize.

Mrs. M. M. H., Sterling, Michigan.

Now that the snappy days are here, they require an ample supply of heavy socks for the men and boys. I eliminate darning by buying dark outing and making feet, having the heels and toes well covered. These I sew over the sock feet, and when worn they can be ripped off and replaced by new. By doing this the socks wear for several winters.

Fourth Prize.

Mrs. R. F. C., Chicago, Ill.

When polishing my kitchen range, I find I can get a much better gloss and it will also stay on longer by using five or six drops of vinegar in the blacking.

When my silver needs cleaning I place it in potato water while I go ahead with some other task. I am always very much pleased with both of these labor-savers.

Fifth Prize.

Mrs. F. N., Flat Rock, Michigan.

If you wish to remove the shell of boiled eggs easily, break the shell a little with the edge of a spoon as soon as the eggs are out of the boiling water. Then cover with cold water and let set a short time before shelling. This saves time and labor and also leaves the eggs smooth.

Rural Health

By Dr. C. H. Lerrigo

HEALTH RESOLUTIONS.

SINCE human happiness depends to a large extent upon having good health to enjoy life in its broadest aspects, one can make good resolutions about health with good purpose.

What have you been doing in the year past that should be eliminated from your daily habits? What have you been neglecting that should receive attention? There is no disputing the fact that you are a year older. Every year that you allow bad habits to dominate is a year of impaired efficiency. We are living longer nowadays. A boy born in the United States now has an expectation of life, at birth, of a little more than fifty-five years, whereas about the middle of the last century his expectation of life would have been only thirty-five years.

When a man has reached the age of thirty-two he may expect to live beyond that period another thirty-five years, and when he reaches the age of sixty-two he may expect to live still for a little more than thirteen years. Of course, these expectations are based on averages, which accounts for the seeming irrelevancy of my figures. The older a man gets to be the better are his chances to be among those who make the average high by living to a great age. Your present habits of life have a great deal to do with determining whether you will be one of those who live to fifty-five or whether you will go on to seventy-five. The man who is digging his grave with his teeth at thirty-five still has a chance to cor-

rect his dietetic errors, but the chance may be gone a decade later. Luigi Cormaro, one of the best authenticated instances of extreme age, was a sick man at forty and obliged to go on a very rigid diet. He enjoyed nearly seventy years of useful life after that and attributed his long life to the fact that early excesses had made him adopt very rigid rules of eating and drinking.

Taking stock of your health is a good New Year's method. Are you getting good service from heart and lungs? Is your blood pressure normal? Are you having good digestion? Does the dentist find your teeth in perfect order? These are important questions for one who thinks it worth while to start the year in good condition. I have three resolutions in mind that will be worth at least one hundred dollars each to you for this year. They are simple. Anyone can follow them.

I will sleep in fresh air, eight hours every night.

I will evacuate the bowels every day at a regular time.

I will drink water freely and eat only moderately of meat.

HOW DO YOU PRONOUNCE IT?

YOUR grocer calls it en-dive, (accent on the first syllable), with the sound of "i" as in "light." Probably you do, too, from force of habit. Don't do it, though; say en-div (accent on first syllable), giving the sound of "i" as in "tin."

Lily White

"The Flour the Best Cooks Use"



A GOOD RECIPE FOR RAISED BISCUITS

Scald 1 pt. milk, or milk and water. Add 2 teaspoons butter or lard, 2 teaspoons sugar and 1 teaspoon salt. When luke warm add 1/2 yeast cake dissolved in 1/2 cup water. Add Lily White flour to make a soft batter. Mix well; add flour to make a dough. Knead. Let rise until it is double in size. Knead again and shape. Let rise 1 1/2 hours. Bake in a quick oven 20 minutes.

Is Quality Flour

There is a great difference in flours. A good bread cannot be expected from a poor flour. From a high-grade flour the best baking is assured. Lily White is the highest quality flour on the market. The finest wheat grown in America is used. The grain is absolutely clean. The milling process is extensive and backed by 60 years of experience. Every step is made for the purpose of producing the best.

Why You Should Use Lily White

REASON No. 18

A favorite flour for three generations.

For three generations Lily White has been the accepted flour by the best cooks. These good cooks have passed it on to their daughters and their granddaughters. It is the best flour for general baking and they know it. That's why the use of Lily White is constantly increasing. Your grocer has Lily White.

VALLEY CITY MILLING COMPANY

GRAND RAPIDS, MICHIGAN

"Millers for Sixty Years"



TANNERS

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

What kind of skins have you? We make up and line Men's & Ladies' Fur Coats, Scarfs, Muffs, Capes, Collars, Robes and Mittens from raw skins. Circulars Free. Use plenty of salt on green hides.

W. W. Weaver, Reading, Mich.
Custom Tanner, 30 yrs. Experience.

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CONSUMERS' FISH CO., Green Bay, Wis.

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No. 3814—Girls' Dress. Cut in four sizes, 6, 8, 10 and 12 years. A 10-year size will require 2 1/4 yards of 27-inch material for the guimpe and 3 1/4 yards for the dress. Price 12c.



No. 3438—Two Dainty Aprons. Cut in one size: Medium, No. 1 will require 7/8 yard of 36-inch material, and No. 2 will require 1 1/4 yards. Price 12c.

No. 3770—A Dainty Boudoir Set. Cut in three sizes: Small, medium and large. The Cap No. 1 will require 3/4 yard of 27-inch material. No. 2 will require 5/8 yard. One pair of slippers will require 3/8 yard for a medium size. Price 12c.

Our Boys' and Girls' Department



Homago Club, Livingston County, Wins Three Prizes at State Fair.

A Year of Club Work

What Livingston County Boys and Girls Have Done.

TO make the boys and girls appreciate the value of rural life and to teach them the value of its outstanding merits, they must be made or invited to take part in all its developments.

There was possibly no county in the state of Michigan that needed club work any more than Livingston, at least that was the first impression that dawned on County Agent C. L. Bolander, who began work there on May 15. To emphasize the value of more constructive breeding among the pure-bred Holstein breeders of Livingston county, of which there are nearly 350, it was deemed feasible to show the parents through the medium of their sons and daughters, who received the heartiest cooperation throughout the season.

Thirty-five boys and girls took part in live stock projects, twenty of them taking pure-bred Holstein calves, and every one made a complete report of their work.

The last week in August the projects were all gathered together at the county fair and were judged, and prizes were awarded accordingly.

From these exhibits, the first prize animals were selected from each class, numbering fourteen animals in all, and were taken to the state fair. With these animals, which consisted of four Holstein calves, three Duroc-Jersey and one Chester White pig and six Shropshire sheep, the following prizes were won: Five first prizes, seven seconds and one third prize, or a total of \$126.50 in prize money.

The club members exhibited their stock at two other fairs, with the total prize money won at the four fairs amounting to the nice sum of \$538.

For the girls not interested in live stock projects, two canning clubs and

one sewing club was organized with a membership of twenty-one.

The following shows the results of records kept by the boys and girls.

Calves.

Appraised value of calves....	\$1,140.50
Cost of calves, including feed and labor, etc.....	799.64
Total profit	\$ 340.86

Sheep.

Appraised value of sheep....	\$ 125.00
Cost of sheep, feed, labor, etc.	74.11

Total profit\$ 50.89

Pigs.

Appraised value of pigs.....	\$ 165.00
Cost of pigs, labor, feed, etc..	120.30

Total profit\$ 44.70

Canning Club.

Value of the products canned,	
1,030 quarts	\$ 451.81
Cost, including labor	237.73

Total profit\$ 214.08

Not all the time was spent in work, for each club had their regular monthly meetings. Some had meetings every two weeks before fair time, and many real problems were discussed and, without question, much good was brought about by such get-togethers.

At no time did the members have to take a back seat, as in every case the parents and business men cooperated to the highest degree. In no small way will this be a stepping-stone for many other young people the coming season.

pounds, have brown hair and eyes and am twelve years of age.

Well, Uncle Frank, "Farewell."—Your niece, Gertie Munroe, Manistique, Mich., R. 2, Box 47.

I wish you would change that "Farewell" to "Good-bye for now." I am a little surprised you took the other side of the question, but I am glad you did, if you really think so.

Dear Uncle Frank:

I believe you have heard from me before on the Thanksgiving contest. I am going to write another also, for if you do not succeed at first, try, try and try again.

I haven't only six aunts and thirteen uncles, but they say there is always room for one more, so I am going to ask you if you will be another uncle.

I think that the boys are smartest, because you were a boy once and so was George Washington, and you know he was a great man, and I may have a chance also. I have eight brothers and one sister.

I have quite a number of cousins also, but I want a few more, and I wish that some of the boys would write to me.

Well as my letter is getting too long I will close.—From another nephew, Arthur L. Ball, DeWitt, Mich., R. No. 3, Box 17.

Thanks, I will be glad to be Uncle Number 14. With the nine boys and one girl in your family, it looks as if the girl side of the "smart question" does not have much of a chance.

Dear Uncle Frank:

I belong to a sewing club which our teacher helps us with. There are six girls which belong to this club. I like to sew very much and expect to be a dressmaker.

I love the farm and for a pet I have



Alice Skelton, Brother and Pony.

a fighting dove, which loves to pick and slap me very much with its wings. Yesterday we caught an owl, which we let go at night. I have a kitten and three little calves which are not all mine.

I think that was a very good story about "My Pig Club Success," that Helen Coffman wrote.

Well, I will close and tell more in my next letter.—Frances J. LeForge, Ypsilanti, Mich. R. 5.

Yours is not the dove of Peace, is it? I hope you will not need to "Rip what you Sew." I'll look for letter No. 2.

Our Letter Box

THIS letter box will be where the boys and girls can express their views, tell of themselves and things about the farm, or ask advice. The most interesting letters each week will appear here. Address your letters to me.—Uncle Frank.

Dear Uncle Frank:

I am in the eleventh grade at high school, am nearly 16 years old and have black bobbed hair. They call me a Flapper.

I often ride horseback to school (it's four miles), and I have plenty of excitement. I'm crazy over horses and ride a little black two-year-old all around home. She trusts us kids and if we tell her that anything won't hurt her she will usually walk clear up to it. She isn't the least bit afraid of cars, but the one I ride to school imagines she is.

I expect to hear that the girls win the debate unless the judge is prejudiced.—A niece, Claire Stimson, Goodrich, Mich.

Horseback riding is dandy sport. I believe you could qualify as the Flapper Horsewoman.

Dear Uncle Frank:

This is the second time I have written to you, but I did not win yet. The first thing I do is read the boys' and girls' club when we get our paper.

I board out in the winter. My father and brother work in camp. I am going up where they are a week from Thursday. I may stay there all the rest of the winter. My pet is a real large cat. We had a cat, dog, cow, calf and heifer, but we sold them all except the cat. It would seem funny to sell cats, wouldn't it?—Your niece, Clarissa Conlon, Hardwood, Mich.

Yes, it would be funny to sell cats,

unless they are of the long-haired, pedigreed kind. I presume you will take the cat to camp with you.

Dear Uncle Frank:

I am thirteen years of age, and my weight is 101½ pounds. I have brown hair and eyes.

I have only one pet, and that is a cat. Her name is Trouble.

Most of papa's crops were pretty good this year. He got 1,900 bushels of corn from fourteen and a half acres. I have a sister and brother teaching school. We have a player-piano. We sure have a nice time when we can all get together and sing.—Another niece, Lucile Frantz, Sunfield, Mich.

Does your cat live up to her name? I would like to join your singing bees. Write again when you can.

Dear Uncle Frank:

This is the first time I have written you, but hope this will escape the waste paper basket.

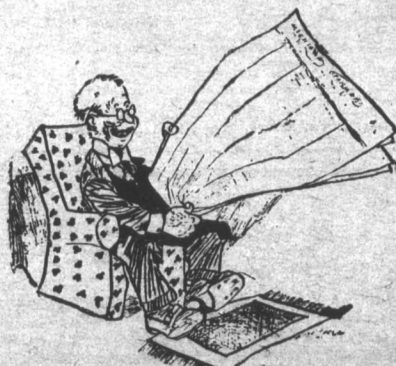
I hope my other girl relatives won't nag me for siding in with the boys.

I have one brother and two sisters at home younger than I am. One brother (Harry) is in Grand Rapids. He won the U. P. championship, or a free trip to your city, and a calf also.

Well, I'll describe myself: I am sixty and one-quarter inches tall, weigh 101

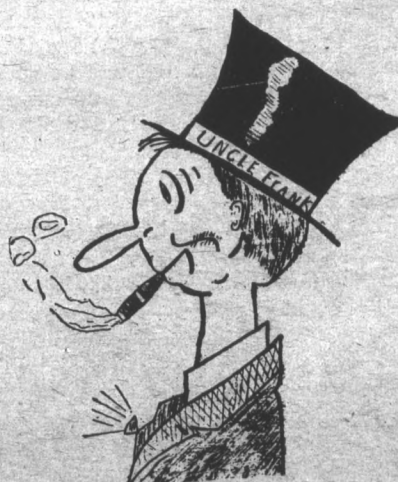


By Irene Genter, Scottville, Mich.



UNCLE FRANK

By B. Alfredson, Whitehall, Mich.



By M. Assennacher, Wyandotte, Mich.



By Herman K. Hoffer, Ashley, Mich.

What Prize Winners Think Uncle Frank Looks Like

A Little About a Lot

By Uncle Frank

A HAPPY NEW YEAR to you all. May 1923 add much good to your life and happiness and your ability to give happiness to others. Sowing good seed is a fundamental for good farming, so let's all of us sow good seeds of thought and action so that we may reap in the future a bountiful and worthy harvest.

If some boys and girls sent their letters to Santa as they do to me, they never would get anything, because Old

That debate contest was interesting. In numbers the girls won out by three to two. Some girls took the boys' side and quite a few booyes took the girls' side. But there were three times as many girls as boys who said that one was as smart as the other. I agree with this idea and my sentiments are with the boy who said that it depended upon the individual. However, those who express this neutral opinion did not have a chance for a prize because in a debate you have to take sides.

There are many times in life when we have to take sides, so let's hope that we all get on the right side of 1923.

THE READ-AND-WINNERS.

Following are the winners in the Read-and-Win Contest of December 16: Pencil Box.

Wilbur Stoeffler, Kalamazoo, Mich., R. F. D. 5.
Ellen Skinner, Batavia, Mich., R. F. D. 1.

Nickled Pencil.

Bruce Weyeneth, Deckerville, Mich.
Helen Finkler, Coopersville, Mich., R. F. D. 2.
Gerald Pike, DeWitt, Mich., R. 3.

Maps.

Anna Mae Harkins, Mt. Pleasant, Mich., R. F. D. 5.
Maxine Hover, Akron, Mich.
Dagney Wolmar, Baraga, Mich., R. F. D. 1, Box 13.
Hilda E. Haystead, Britton, Mich.
Elsie Gill, Kalkaska, Mich., R. F. D. 1, Box 100.

THE CORRECT ANSWERS.

The following are the answers to the Read-and-Win Contest of December 16:

1. 75-80 pounds—Page 19-653.
2. Seven cents—Page 652-18.
3. Forty bushels—Page 5-639.
4. Ernest Pettifor—Page 7-641.
5. Canada—Page 7-641.
6. 5.8 acres—Page 9-643.
7. "God helps those who help themselves." "Always work before play."—Page 650-16.
8. Comes from locally grown alfalfa, and, therefore, is thoroughly acclimated—Page 3-637.
9. Stephen Shepard—Page 3-637.
10. Dusty air—Page 652-18.

Poetry Contest

MANY of the boys and girls have expressed a wish for a poetry contest, so here we have it. For the two best original poems we will give a Michigan Farmer pencil box; for the three next best, a handsome nickled pocket pencil, and for the five next best, a Michigan Farmer map of the world and new Europe. These poems may be on any subject, but we would prefer that they be not more than two hundred words long. Please send these poems to Uncle Frank, Michigan Farmer, Detroit, Mich., before January 5.

Kris Kringle wouldn't know who they are or where they live. Please put your name and address on the envelope, your letter, and your contest paper.

Many answered question number seven by "Merry Circle" and "Happy Circle," but one boy had it "Marry Circle." I hope not. You will see something about the Merry Circle in the next issue.

One of the neatest Read-and-Win papers this week was signed "Josh." It was not entirely correct but if it had been the "josh" would have been on the writer, because we could not mail prizes to just "Joshes."



TIME SAVED IN FEEDING.

PLANS to simplify grain handling in poultry feeding are being widely adopted. A house recently erected by an Illinois poultry keeper has wall grain chests in each pen, filled through doors in the outside walls. These grain chests hold a supply sufficient to last a fortnight of scratch feed and dry mash, in separate compartments, and they are attached to the wall at a convenient height from the pen floor. Taking up no ground space, they do not diminish the layer capacity of the pen. They are constructed with a sloping cover, so that the hens do not perch on them.

The foregoing simple plan can be adopted with small houses and those already built. Other plans now in vogue call for a full or half second story, and a house two pens, instead of one, deep. In the space above is a room with facilities for storing and mixing grain. Chutes entering this pen convey dry mash to large hoppers, the chutes being reached with a grain car on tracks. The scratch feed is also emptied into a type of mechanical feeder below. A great many hens are thus fed in a short time.

Still another arrangement is successful on a large squab farm. The houses,

each with some twenty pens, are built with an alley the entire length at the back. A narrow track along this carries the grain car, which is stopped at each pen and the pigeons quickly fed with a measure.

DEVITALIZED PULLETS.

I have about seventy-five pullets and they are not doing well. Some of them have pale combs and are not very lively. They eat well but the food don't seem to do them the good it ought to. When some of them walk they walk careful, as though they were walking on eggs. Mostly hatched in May. I examined them for lice or mites, but did not find any. Twenty-five old hens are doing well. What can I do for the pullets.—C. W. D.

When pullets are in the condition described it is usually due to lack of vigor in the breeding stock, overcrowding in colony houses or brood coops, or the lack of a balanced growing ration. Such losses must be largely controlled by prevention.

Give the entire pullet flock a dose of epsom salts. About half a teaspoonful per bird will be enough. Give the dose in a moist mash after the birds are quite hungry from missing a meal. Then place them on a balanced ration. A dry mash composed of 100 lbs. beef scrap, 100 lbs. bran, 100 lbs. ground

oats, 100 lbs. middlings and 100 lbs. cornmeal will be good. The commercial dry mashes are also satisfactory.

It will also pay to cull the pullet flock rather severely and take out all spindly crow-headed birds that seem lacking in vigor. Also perform a post-mortem on any that die, as the condition of the internal organs may indicate the cause of the losses.

HEN WITH DUCK HEAD.

About a week ago one of my hens started drooping and its comb was pale. A few days later it was almost black. It seems to have a ravenous appetite. I shut it from the rest of the flock. A few days later there were several affected the same way. I have always kept their quarters clean. They have plenty of range.—C. N. K.

When a hen's head turns dark it is often a symptom of liver trouble due to errors in feeding, lack of exercise or a general breaking down. When hens are crowded, as you suggest, there is apt to be a greater mortality rate from a variety of causes.

When a hen dies in the manner described it always pays to perform a postmortem and examine the internal organs. This often furnishes an accurate clue to the cause of the death. Spoiled feed on the range sometimes causes digestive troubles which result in the death of poultry.

A hen with liver trouble cannot be cured as the trouble is not located until the bird is very sick. It is a trouble that can usually be controlled by careful feeding.

MATING DUCKS AND GEESE.

How many ducks is it wise to keep with one drake for breeding purposes? How many geese are needed with one gander? And what about in-breeding in geese and ducks? Should we get a drake and gander from different flocks so that there is no relation?—F. G.

A drake for every five ducks is a safe proportion early in the breeding season. Later a drake to every seven



"Uncle Frank," by Ione Merrill, Battle Creek, Michigan.

or eight ducks has proven satisfactory. Geese are usually mated in trios. A larger mating may sometimes prove satisfactory, but one gander with two geese is a safe mating to guarantee the fertility of the eggs if other conditions are all right.

Ducks and geese are sometimes greatly reduced in vitality by in-breeding. Much depends on the individuality of the birds and the extent of the in-breeding. I think it is always safest not to practice in-breeding with ducks or geese, but the breeder must be sure that the new stock he buys is as good or better than his own stock.

140 Egg Incubator \$13.25
30 Days Trial
Freight Paid east of the Rockies. Hot water, copper tanks—double walls—dead air space—double glass doors—a real bargain at \$13.25. Shipped complete, set up ready to use.

140 Egg Incubator and Brooder - \$17.75
180 Egg Incubator Alone - 15.75
180 Egg Incubator and Brooder - 22.00
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250 Egg Incubator and Brooder - 31.00

Made of California Redwood—lasts a lifetime. Positively the best value on the market today. Order the size you want direct from this ad. 30 days trial—money back if not pleased. If not ready to order now, don't buy until you get our new 1923 catalog. (3)
WISCONSIN INCUBATOR CO. Dept. 116 Racine, Wis.

140 EGG Incubator Only \$13.85
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140 EGG INCUBATOR WITH BROODER \$19.75
260 EGG INCUBATOR, ALONE, ONLY 23.50
260 EGG INCUBATOR, WITH BROODER 32.90
30 days' trial—money back if not O. K.—FREE Catalog
Ironclad Incubator Co., Box 91 Racine, Wis.

Trial Offer—10c brings midwest farmers' utility poultry paper, twice-a-month for 3 months. Poultry Guide, Box D, Montpelier, Indiana

POULTRY

CHICKS

That Grow, Lay and Pay

Barron English White Leghorns, Brown Leghorns, and Anconas.

Purchase this year's crop of chicks from tested layers, headed by large vigorous 260 to 288 Pedigreed Males.

Customers Report Big Profits with these wonderful layers.

Write today for our large illustrated catalogue. It tells all about them, its free.

Wyngarden Hatchery,
Box M, Zeeland, Michigan

Whittaker's R. I. Reds

Michigan's Greatest Color and Egg Strain. A flock average of 24 eggs per hen is reported by Mr. Jay B. Deutch, Big Bay, Mich., for the month of January, 1922. We will give 100 Grade "A" chicks to the customer who will beat this record, with Whittaker's Reds, during January, 1923. Write for particulars, also prices of chicks and eggs for next season. Our hatchery is small, we produce QUALITY not QUANTITY, so order early to avoid disappointment.

INTERLAKES FARM
Box 39 Lawrence, Mich.

Laying Pullets

A limited number of laying White Leghorn Pullets; these Pullets are in prime condition and will make you a good investment for eggs this winter and in the spring.

A pen of very fine Anconas; and one pen of Buff Orpingtons.

White Leghorn Cockerels, English breeding; also White Rock Cockerels.

Let us quote you on these birds.

STATE FARMS ASSOCIATION

201 Chase Bldg., Kalamazoo, Michigan

JUST-RITE Baby Chicks LOOK!

A Hatch Every Week All Year

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

NABOB HATCHERY, Dept. 15, Gambler, O

Pullets and Hens

Barron Strain S. C. W. Leghorns and Parks strain B. Rocks. Large pullets starting to lay \$1.75 each. 12 weeks old pullets \$1.25 each, \$1.15 per 100. Selected S. C. W. Leghorn hens \$1.00 each. \$95 per 100. Good healthy birds no culls or weaklings.

PINE BAY POULTRY FARM, Holland, Mich.

Baby Chicks \$12.00 per 100 and up

Hatching eggs, \$1.50 per setting to \$15.00 per 100. We are listing 17 varieties of pure bred fowls; Chickens, Geese, Ducks & Guineas, also breeding stock. Send for prices and circular. Booking now for early delivery. CLINTON HATCHERY & POULTRY FARMS, Wilmington, Ohio.

Order Your Baby Chicks Today

We can supply you with chicks from carefully selected stock of the following varieties: S. C. White Leghorns, White Wyandottes, R. C. Rhode Island Reds, Foreman Strain Barred Plymouth Rocks.

THE MILAN HATCHERY, Milan, Mich.

Barred Rocks egg contest winners, eggs from a rain record with records to 290 a year. \$2.00 per setting prepaid by P. P. Circular free.

—FRED ASTLING, Constantine, Mich.

Barred Plymouth Rock Cockerels \$5.00 each. Prize winning laying strain.

J. A. BARNUM, Union City, Mich.

RHODE ISLAND WHITES

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

Additional Poultry Ads. on Page 701

BREEDERS' DIRECTORY

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



5 Grand Champions 28 FIRSTS

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

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

into your herd and you will have individuality, distinction and quality.

The services of our Grand Champion Stallion, **GEORGE HENRY**

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Your correspondence and inspection are invited.

WILDWOOD FARMS

ORION, MICHIGAN

W. E. SCRIPPS, Prop. SIDNEY SMITH, Supt.

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

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

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

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

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Young bulls from A. R. cows for sale. **F. W. WALLIN**, Jenison, Mich.

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

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

WINNWOOD HERD

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

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

The Traverse Herd

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

TRAVERSE CITY STATE HOSPITAL
Traverse City, Mich.

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

COLANTHA BULLS

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

\$50 a year gets daughter of Hazelilet Idleaze. His two nearest dams average 36 lbs. butter 566 lb. milk 7 days, age 48 months. Herd Federal tested. **M. L. McLAULIN**, Redford, Mich.

Yearling Bull, \$100

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

For Sale King Segis Breeding

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

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JACKSON, MICHIGAN

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

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

JERSEY Herd Bulls. Serviceable age and younger for sale. Sire, a R. of M. son of Pogs 98th of Hood Farm. Dams and granddams have good R. of M. records. I own Ohio's Champion Long Distance Butter Cow (all breeds). Also Jersey Milk Cow. Forhallo Lucia 70400 lbs. M. 3160 lbs. fat in 6 yrs. Herd accredited. Prices \$50 and up. Write your wants. **C. C. CREEK**, Montpelier, O.

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CRYSTAL SPRING STOCK FARM,
Silver Creek, Allegan County, Michigan.

FOR SALE: Jersey bulls ready for service. All cows Register of Merit. Accredited herd. **SMITH AND PARKER**, R. 4, Howell, Mich.

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

Registered Jersey cattle young bulls, for sale. Herd accredited. **J. L. CARTER**, Lake Odessa, Mich.

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

ALLEN BROS.

616 So. West St., Kalamazoo, Mich.

For Sale Hereford cows and heifers bred to and young bulls by Woodford 100th. **LEARNED & SON**, Hamilton, Ind.

Herefords For Sale

5.2 and 3 year old registered Polled heifers, with heifer calves by side, price \$150 to \$175 each. Also 2 bull calves born in April, price \$75 each. **COLE & GARDNER**, Hudson, Mich.

HEREFORD Herd Header for sale, a 2000 lb. tried sire, can show his progeny. Can't use longer, priced to sell. **E. J. TAYLOR**, Fremont, Mich.

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

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ON
Jan. 23, 1923

3 miles east of Lennon, 2 miles north and 2 miles west of Swartz Creek or 9 miles west of Flint on Lennon road.

5 Polled Shorthorn cows and heifers; 5 Shorthorn cows and heifer and 1 Shorthorn bull. O. I. C. Hogs, 6 tried sows, 3 bred gilts, 3 open gilts, 6 fall sows and 6 fall boars.

Andy Adams, Auctioneer

Catalogue on Request.

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Swartz Creek, Mich.

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

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

FOR SALE

Polled Shorthorn Cows & Heifers

in calf and calf by side. Also a few young bulls. Herd headed by Victor Sultan and Royal Nonpareil.

We can please you in richly bred cattle with quality at farmers' prices.

GEO. E. BURDICK, Mgr.
Branch County Farm, Coldwater, Mich.

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Special offer on several bulls at Farmers' prices. Suitable for grading up purposes where beef is required. Also several high class herd headers of the best of breeding.

C. H. Prescott & Sons,

Office at Tawas City, Mich. Herd at Prescott, Mich.

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

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

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

Shorthorn Bull for sale, white first prize winner, by Imported Sire. **J. A. BARNUM**, Union City, Mich.

Shorthorn Bull calf. Pure Scotch, and extra fine one. Ready for service. Photo Free. **FRANK H. RUSSELL**, Wakarusa, Ohio.

Live stock AND DAIRYING

THE "CHEAP FEED" IS OFTEN EXPENSIVE.

THE season is at hand when farmers lay in their stocks of high-protein feeds for winter use. Many have taken more time and bought their supplies earlier, but the majority of feeders do not buy far ahead of their need.

In buying feeds, as in buying fertilizers, too little consideration is given to the actual feeding contents of the bag that holds the contents. Too often the main consideration is the price per ton. Buyers need to keep in mind the fact that when they buy digester tankage, oil cake, cottonseed meal, etc., they buy protein that will balance up the carbohydrates carried by the home-grown portion of the ration.

Many feeders, in past years more frequently than now, have used a forty per cent protein instead of a sixty per cent protein tankage because they could get the former for a few dollars less per ton than the latter. The truth is that unless they got it for two-thirds (or less) of what the sixty per cent goods cost, they were fooling themselves. The cost per ton for bags and freight was just the same as for the better goods, and it was just as much labor to handle a bag of the forty per cent. Its feeding value, so far as protein was concerned, was only two-thirds of the higher grade and higher priced goods.

It always pays to figure the cost per ton of the particular material that is sought in feeds. Do not consider it on the basis of price per ton. Always analyze it into the cost per pound of the particular feeding ingredient needed to balance the ration. That is what counts, and what is bought—not so many tons of feed at so many dollars a ton.—**E. W. G.**

MILK ASSOCIATIONS HELP DAIRYMEN.

THE twenty-seven state milk producers' associations have become an aggressive force in bringing to public attention the discouraging conditions through which the dairyman has been obliged to pass.

Our own state association has been marching at the head of the list in the constructive work done, and the influence shed. Its accomplishments are due quite largely to the seven years of faithful and efficient effort of **R. C. Reed**, of Howell, who, during that period has acted as secretary of the Michigan association. He took over the work of the association with an empty treasury and when he recently

passed the keys of the office to the hands of **John C. Near**, of Flat Rock, his successor, there were some \$70,000 balance showing on the books.

The office of the association under **Mr. Near** has been moved from Howell to Detroit, and can now be reached at 707 Owen Building, at Lafayette and Wayne.

MORE CATTLE ON FEED.

THE number of cattle on feed on December 1, in eleven corn belt states is, according to a federal report just issued, twenty-seven per cent above the number on feed last year on the same date.

The increase in number of feeding cattle is largest west of the Mississippi river. All of the states show an increase except Michigan and Minnesota. In Michigan, some cattle feeders have turned their activities to sheep, and it is estimated that the number of cattle on feed is five per cent less than last year on December 1. The largest increase is in Iowa, being fifty per cent. Illinois reports thirty-five per cent, and Nebraska, Missouri and South Dakota each report twenty-five per cent.

The data collected indicates that the average weight of feeding cattle is heavier this year than last, and also that there has been more than a proportional increase in feeder calves. The average weights for the corn belt when put on feed is as follows: One thousand pounds and upwards, 30 per cent; 750 to 1,000 pounds, 32 per cent; 750 pounds or less, 20 per cent; calves, 18 per cent. The figures for Michigan are, 1,000 pounds and upward, six per cent; 750 to 1,000 pounds, 39 per cent; less than 750 pounds, 20 per cent, and calves, 35 per cent.

The intention of corn belt feeders to market their cattle was reported as follows: Fifteen per cent in December; 14 per cent in January; 12 per cent in February; 13 per cent in March; 11 per cent in April; 16 per cent in May, and 19 per cent after June 1. For Michigan, the percentages are: December, 9; January, 18; February, 10; March, 16; April, 12; May, 2; after June 1, 33.

Dairying will grow as a basic farming industry because it makes possible great savings in the production of nearly all farm crops.

Lime which gives new life to land is equally necessary in the human ration. It builds bone. Sour-land crops are deficient in it.



Angus Steers Exhibited by A. & E. Lesser, of Dexter, at the Recent Detroit Fat Stock Show, and for which they Received First Honors.

BREAKING CALVES TO MILK.

IN reading the article by Leo C. Reynolds on "Breaking Heifers to Milk," in the November 11 issue of the Michigan Farmer, I would like to tell my method.

Put the heifer in stanchions with her left side next to a partition. Put on halter with long tie-rope, bring head to right as far as possible, put the rope around right hind leg from the rear and let it come out under rope around leg. Put leg in right position to milk, draw rope tight and tie securely to something behind heifer. Sit down and milk. The heifer can only move her leg up and down. Usually in from one week to ten days the heifer stands like an old cow. I have seen men lick a heifer in breaking them in. Always try kindness first. It is not necessary to misuse a heifer if broke in this way.—Chas. J. Mills, Allegan County.

MINERALS FOR HOGS.

THE matter of mineral elements in the hog's ration is important, especially in our north country where, for months at a time the ground is frozen so that hogs cannot root in it.

The exact proportion of the ingredients used to make up a mineral mixture, however, is not so important. The object should be to see that mineral elements such as the hog's system demands for proper development, and such as are not provided in the food in sufficient quantities, should be available in some other form.

In ashes, salt, lime and sulphur will be found most everything that is needed. Some bone meal, or ground rock phosphate, will help and should be added, if it is available. Charcoal is good, so is soft coal, but charcoal is simply an aid to digestion and soft coal is valuable mainly for the sulphur it contains. The four ingredients first named, along with charcoal, can be secured anywhere and cheaply, and we will do well to supply them.

As a guide to follow the following formula is good: Wood ashes, one bushel; charcoal, one bushel; rock phosphate, one bushel; salt, one peck; lime, one peck, and sulphur, one peck.—P. P. Pope.

FOREIGN BORN FARMERS.

IN a recent investigation by the State Department of Agriculture, it has been found that about twenty-five per cent of the Michigan farms are owned by foreign born people. In other words, 48,000 of the 196,000 Michigan farms are owned by natives of other countries.

These foreign born farmers have made good. In many places they have formed communities which constitute some of the best rural sections of the state. These foreign born people come from Germany, Poland, Sweden, Finland and the Netherlands.

It is a matter of common knowledge that the celery industry of Grand Rapids and Muskegon has been developed by people from the Netherlands. The large and prosperous agricultural community in Ottawa county has been made possible by people from Holland. These people have established one of the largest day-old-chick industries in the country and are becoming one of the greatest factors in making Michigan a leader in the poultry industry.

Natives of Sweden and Finland are great factors in the development of the Upper Peninsula, while people born in Poland and Germany are greatly responsible for the agricultural prosperity of the eastern part of the state.

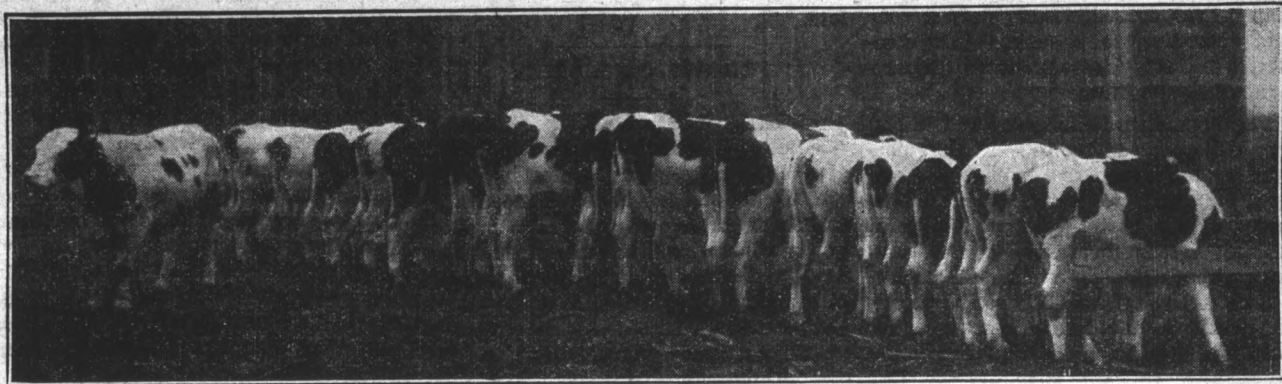
Thirty months is the age limit for most hens. Beyond that point, they pick coins from their owner's pockets.

The best friends fall out. Watch your teeth.

PUBLIC SALE OF 33 REGISTERED HOLSTEINS

HERD FEDERAL ACCREDITED

Friday, January 5, 1923 at 10 o'clock



Some of the individuals offered in sale.

26 cows and heifers. 11 either have A. R. O. records or are from record dams. Private records are from 9000 to 12,500 pounds of milk in ten months on cows. 1 bull 10 months old, also 5 bull calves and 13 daughters of Sir Colantha Fobes Champion 242697 whose dam has made three records above 34 pounds of butter in seven days and whose sire is from that famous cow, Colantha 4th's Johanna. Sir Walker Homestead Fobes 362624 whose two granddams average 1157 pounds of butter and 27,981 pounds of milk in one year is Junior herd sire and all of the heifers are bred to him.

L. Pritchard & Son, Elwell, Michigan. Farm 3 1/2 miles W. Alma. Sale will be Under Cover.

BROWN SWISS BULL calves from 1 to 7 mos.
E. T. SPENCER, R. 1, Sunfield, Mich.

WANTED Milking Strain, Shorthorn bull 6 to 10 months old. Give pedigree with price.
Frank Billings, Almont, Mich.

For Sale two registered Shorthorn Bulls, 15 mos. and 2 weeks old, 1/2 and 3/4 Scotch.
EMERY DENNES SNYDER, R. 2, Ovid, Mich.

Steers For Sale

120 Herefords 800 lbs. 48 Herefords 980 lbs.
80 " 675 lbs. 87 " 570 lbs.
47 " 500 lbs. 84 Shorthorns 600 lbs.

All are steers and the best of quality, dark reds, dehorned, each bunch even in size, good grass flesh. Also know of other bunches. Some just fair flesh account short pasture. Your choice from any bunch.
VAN V. BALDWIN, Eldon, Wapello Co., Iowa

HOGS

BROOKWATER DUROC JERSEYS
Ready for Service Boars

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

Duroc Fall Yearling

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

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

DUROC-JERSEYS Choice fall pigs and sows bred for Mar. and April farrow, priced right.
RUSH BROS., Romeo, Mich.

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

Duroc spring boars, gilts, summer and fall pigs for sale. Reasonable prices and satisfaction guaranteed. Jesse Bliss & Son, Henderson, Mich.

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

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

Durocs Prolific, big bone, best breeding, \$10 to \$15. Write for description. Satisfaction or money back.
B. E. KIES, Hillsdale, Mich.

BIG TYPE CHESTER WHITES

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

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

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

Chester Whites. Choice spring gilts bred to Giant, 2nd prize boar at State Fair. Also fall gilts.
LUCIAN HILL, Tekonsha, Mich.

Registered O. I. C. Boars

J. CARL JEWETT, Mason, Mich.

O. I. C. 50 last spring pigs either sex not akin. Big, growthy stock, recorded free, 1/2 mile west of Depot. Citiz. Phone.
OTTO B. SCHULZE, Nashville, Mich.

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

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

O. I. C.'s Spring pigs. Pairs not akin. Also July, August, and Sept. pigs. MILCH PETTERSON, Elmhurst Farm, Ionia, Mich. Phone

O. I. C. 20 large growthy gilts farrow in Mar. also fall boar pigs.
CLOVER LEAF STOCK FARM, Monroe, Mich.

Registered O. I. C. Boars

J. H. W. MANN, Dansville, Mich.

Spring Boars Now Ready To Ship

H. O. SWARTZ, Schoolcraft, Mich.

Lone Maple Farm L. T. P. C. Match Boars and gilts ready. Prices reasonable, stock as represented. F. R. Davis & Son, R. 3, Belding, Mich.

B'g Type P. C. Spring boars and gilts ready for new homes, also sows and pigs.
CLYDE FISHER, St. Louis, Mich.

Large Type Polands. Spring boars and gilts, sired by Michigan Liberator and Big Cheekers. Immured by double treatment. Also fall pigs both sexes.
George F. Aldrich, R. 6, Ionia, Michigan

LARGE TYPE P. C.

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

LARGE TYPE POLANDCHINAS

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

L. T. P. C.

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

Additional Stock Ads. on Page 701

CLASSIFIED ADVERTISING

This classified advertising department is established for the convenience of Michigan farmers. Small advertisements bring best results under classified headings. Try it for want ads and for advertising miscellaneous articles for sale or exchange. Poultry advertising will be run in this department at classified rates, or in display columns at commercial rates.
Rates 8 cents a word, each insertion, on orders for less than four insertions; for four or more consecutive insertions 6 cents a word. Count as a word each abbreviation, initial or number. No display type or illustrations admitted. Remittances must accompany order.
Real estate and live stock advertising have separate departments and are not accepted as classified. Minimum charge, 10 words.

Rates in Effect October 7, 1922

Words	One time	Four times	One time	Four times
10.....	\$0.80	\$2.40	26.....	\$2.08
11.....	.88	2.64	27.....	2.16
12.....	.96	2.88	28.....	2.24
13.....	1.04	3.12	29.....	2.32
14.....	1.12	3.36	30.....	2.40
15.....	1.20	3.60	31.....	2.48
16.....	1.28	3.84	32.....	2.56
17.....	1.36	4.08	33.....	2.64
18.....	1.44	4.32	34.....	2.72
19.....	1.52	4.56	35.....	2.80
20.....	1.60	4.80	36.....	2.88
21.....	1.68	5.04	37.....	2.96
22.....	1.76	5.28	38.....	3.04
23.....	1.84	5.52	39.....	3.12
24.....	1.92	5.76	40.....	3.20
25.....	2.00	6.00	41.....	3.28

Special Notice

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

MISCELLANEOUS

HOMESPUN TOBACCO. Chewing: 5 pounds, \$1.75; 10 pounds, \$3; 20 pounds, \$5. Smoking: 5 pounds, \$1.25; 10 pounds, \$2; 20 pounds, \$3.50. Send no money, pay when received. Co-Operative Tobacco Growers, Paducah, Kentucky.

NATURAL LEAF TOBACCO. Chewing: 5 Pounds, \$1.75; 10 pounds, \$3; 20 pounds, \$5. Smoking: 5 Pounds, \$1.25; 10 pounds, \$2. Pay when received. Tobacco Growers' Union, Paducah, Ky.

KENTUCKY TOBACCO Three year old leaf. Pay for tobacco and postage when received. Chewing 5 lbs. \$1.65; smoking 10 lbs. \$1.50. Farmers' Grange, Dills, Hawesville, Ky.

WANTED to buy choice and No. 1 Timothy, Clover and Alfalfa Hay. Car lots. Broadwater Feed Co., Appalachia, Va.

FREE CATALOG Carpenter's Auction School. Largest in world. Terms. Opens soon. Tuition \$100. Hall Bldg., Kansas City, Missouri, and Atlanta, Georgia.

POULTRY

DON'T BUY CHICKS & HATCHING EGGS UNTIL you get our catalog and prices on Barred Rocks, White Leg, Anconas. Write today. Discount on early orders. Model Poultry Farm & Hatchery, R. 4, Zealand, Mich.

RHODE ISLAND REDS. R. C. Large fancy cockerels and pullets at \$3 each. Burt Sisson, Imlay City, Mich.

S. C. REDS. This strain winners State Fair Laying Contest, beautiful red oaks. \$3.00. H. W. Schultz, R. 1, East Lansing, Mich.

FOR SALE—Pure bred Buff Orpington Cockerels. \$3 each and you pay the express charges. Mrs. Grant Salway, Jonesville, Mich.

BUFF ORPINGTONS. Barred Rocks. Young's White Leghorns, Guineas. Illustrations. Fenner Bailey, Montgomery, Mich.

SINGLE COMB Black Minorca Cockerels guaranteed \$4-\$10. Chas. Schook, Allenton, Mich.

GET EVERGREEN POULTRY FARM'S cheap prices on pure bred poultry, chickens, turkeys, ducks, geese, guineas, baby chicks best laying strain. Illustrated catalog free. Evergreen Poultry Farm Hatcheries, Hampton, Iowa.

BABY CHICKS. Save \$3 to \$10 per 100 by placing order now. Pullets lay at 4 months age. Write for free catalog. D. T. Farrow Chickeries, Successors Farrow-Hirsch Company, Peoria, Illinois.

SELECTED CHICKS from best strains at living prices. All popular varieties. First hatch in January. Hatching eggs. Write for circular and price list. Litchfield Hatchery, Litchfield, Mich.

FOR SALE single comb Ancona cockerels. Sheppard strain, also S. C. Rhode Island Red Cockerels at \$1.50 to \$3.00. Will Chriscinski, Imlay City, Mich.

EXTRA fine utility Single Comb White Leghorn Cockerels. \$1.75 each. Harry Franks, St. Louis, Mich.

SILVER Spangled Hamburg Cockerels at \$2.00, \$3.00 and \$5.00 each. J. G. Philpott, Port Huron, Mich. R. F. D. 1, Box 44.

68 VARIETIES Fine pure bred chickens, ducks, geese, turkeys, stock eggs, chicks. Large catalog 5c. A. A. ZIEMER, Austin, Minn.

BARRED ROCK Cockerels for sale. Henry Vickery, Fennville, Mich.

MICHIGAN'S Best Giant Bronze. Large vigorous birds from America's best strains. Both utility and fancy. Furnish unrelated stock. N. Evalyn Ramsdell, Ionia, Mich.

TURKEYS. Mammoth Bronze Beauties. Mrs. Eugene Ramsdell, Hanover, Mich.

GIANT BRONZE TURKEYS from prize winning strains, splendid size and color. Mrs. LaVerno Brownell, Belmont, Mich.

GIANT BRONZE TURKEYS. Vigorous purebred stock. Best strains, large type, fine coloring. Unrelated stock. Write Mrs. Perry Stebbins, Saranac, Mich.

200 GIANT S.C. Black Minorca cockerels none better \$2.25 each. Mike Schaefer, R. 1, Essexville, Mich.

GESE—Toulouse, African, Emden. DUCKS—Pekin, Rouen, Runner, Muscovy. Price reasonable. John Hass, Bettendorf, Iowa.

PEAFOWLS, Pheasants, Bantams, Pigeons, Guinea Pigs. John Hass, Bettendorf, Iowa.

HELP WANTED

WANTED—One single man and one good boy for work on modern dairy, hog and poultry farm. Must have good habits and be hustlers. Steady work and a good home. G. F. Emstrom, Maple Hill Farms, N. Farmington, Mich.

WANTED experienced married man to work 80 acre dairy farm about Mar 1st. State wages expected. Must have good reference. Box J 30, Michigan Farmer.

More Sheep on Feed

Michigan's Increase Over Last Year is Twenty-five Per Cent

APPROXIMATELY twenty per cent more sheep and lambs were on feed, December 1, this year, than on the corresponding date a year ago, according to a survey just completed by the United States Department of Agriculture.

The largest increase occurred in the western irrigated region. In that section it amounted to twenty-five per cent for the area as a whole, practically every state, except Montana, sharing in the increase. In Colorado the number of sheep and lambs on feed is estimated at 1,300,000 head, a thirty per cent increase over a year ago, and the largest number fed in that state since 1914. In Idaho a fifteen per cent increase for the state is indicated, with the Twin Falls, Jerome, and Gooding sections showing a thirty per cent increase. Five hundred thousand of the sheep and lambs on feed in those sections, however, are controlled by one large packing concern.

Utah shows an increase of approximately 100 per cent over last year, 188,000 head being on feed, compared with 94,000 in 1921.

In the eleven corn belt states, the survey showed ten per cent more sheep and lambs on feed than in 1921. Although the increase was about the same in the corn belt territory east and west of the Mississippi there was a rather wide variation among the various states. Michigan led with a twenty-five per cent increase, with Nebraska and Kansas each showing a twenty per cent increase. Nebraska is the largest sheep and lamb-feeding state in the corn belt. Most of the increase in Nebraska occurred in the Scotts Bluff and Platte Valley sections, which are really more a part of the irrigated section than of the corn belt. It is estimated that there are 140,000 sheep and lambs in the Scotts Bluff area and 300,000 in the Platte Valley.

According to the expressed intention of corn belt feeders, thirty-one per cent of the stock on feed December 1 east of the Mississippi will be marketed during December; thirty-five per cent in January; fifteen per cent in February; fourteen per cent in March, and four per cent in April. In the section of the corn belt west of the river twenty-five per cent is expected to reach the market in December; thirty-two per cent in January; twenty-eight per cent in February; eight per cent in March, and seven per cent after April 1. Indications point to the bulk of the western Nebraska stock moving to market in February and March.

Of those on feed east of the river, seventy-eight per cent are lambs and twenty-two per cent sheep, whereas west of the Mississippi eighty-four per cent are lambs and sixteen per cent sheep.

It is believed that the lambs on feed in the western irrigated regions are considerably heavier than a year ago, and that a larger percentage of them are of northern breeding. The increasing cost of grain and hay may result in earlier marketing than usual.

Movements of feeding sheep and lambs out of all public stockyards during the four months, October 1 to December 1, this year, amounted to 2,768,000 head, compared with 2,201,000 last year and 3,280,000 in 1920. Movements into the five eastern corn belt states during these four months amounted to 546,000 head this year, compared with 504,000 last year, and 679,000 in 1920. During the same period the sixteen western corn belt states received 932,000 head this year, compared with 957,000 last year and 1,391,000 in 1920.

In addition to this movement from

markets to feeding areas there was this year an unusually heavy movement direct from producing areas into feedlots.

GROWS OWN SEED.

GEORGE NEWETT, of Ishpeming, believes that home-grown seeds give especially good results in northern Michigan. He has convinced himself through his own success in producing garden vegetables from his own seed, and he calls attention to the success of another Marquette county man, Mr. Herman Nickulas, of Republic, in growing onions—white, yellow and red—from his own home-grown seed.

Mr. Nickulas' onions, this year, were very large in size and crowd one another out of the row. He had also in his garden a pumpkin growing and measuring twenty-six inches long by thirty-six in circumference. Mr. Nickulas has a quantity of cabbage-seed for his own use grown by himself this season. He has specialized in a variety

of cabbage that keeps well through the winter till the following spring.

OUTLOOK FOR AGRICULTURE FOR 1923.

TWELVE months ago most of the six million farmers of the United States were starting on the long hard climb out of the valley of economic depression. They have not yet attained the heights which are bathed in the grateful sunshine of prosperity. Some, indeed, have fallen by the way. Others are still in the valley. Nevertheless, as we stop a bit and look backward we can see that very considerable ground has been gained by the great majority, and we can enter the New Year with renewed hope and with that courage which comes from the realization that we are really making some progress.

A year ago, when speaking of the prospects for farming in 1922, I said that while there was no reason to expect boom times for the farmer in the near future, there was promise of better times, both for the farmer and for those whose business is largely dependent upon him. The year has brought fulfillment of that promise.

Speaking generally, times are better, much better, than a year ago, both for agriculture and for industry.

Crops have been good, on the whole. Prices of the major crops are mostly considerably higher. While there has been a corresponding advance in the price of the things the farmer must buy, the total sum which farmers will receive for the crops of this year is greater by a billion and a half dollars, or more than that which they received for the crops of last year. This will certainly mean better times on the farm, and farm folks will be able to ease up a little on the grinding economy they were forced to practice the preceding year.

The labor cost of producing the crops of 1922 was still further reduced. There were some substantial reductions in freight rates. Much helpful legislation has been enacted and more will be this winter. Interest rates are lower and the credit strain has been eased. This has made it possible for many farmers who were rather heavily involved to refund their obligations and get themselves in condition to win through.

There are still some dark spots. In some sections weather conditions were unfavorable and crops were short, and farmers in these sections are having a very hard time of it. Freight rates are still too high, especially for those who must pay for a long haul to market.

Taxes are high, but this is largely due to the increase in local taxes, over which farmers themselves must exercise control.

There has been gratifying growth in farmers' cooperative marketing associations, and more of them are being organized on a sound business basis.

Aside from the help which has been given by legislation and by administration activities, strong economic forces are at work to restore a more normal relation between agriculture and other industries.

The peril in the agricultural depression is more keenly realized by other groups than ever before, and on every hand a sincere desire is being evidenced to do what can be done safely to help the farmer better his condition.

Everything considered, we have good reason to expect still better things for agriculture in the year 1923.—Secretary of Agriculture, H. C. Wallace.

REGARDING THIS WEEK'S MARKET SERVICE.

ON account of the congested service over the Christmas holiday it has been impossible to secure late and dependable market reports, and, rather than publish reports in which we do not have full confidence, we have chosen to run other material. Our readers are entitled to the best market news that can be secured. To this end we are using every effort to have our market comment and quotations as perfect as it is possible to get them. The regular market service will appear next week again.

Five cents a pound was the average increase in price by selling wool through the state pools last year as compared with the local prices paid by dealers. During the year 22,289,000 pounds was marketed by pooling, at an average price of twenty-five cents, with almost twenty-one cents net to the grower, while the average price paid by dealers was only sixteen cents. This alone saved the wool growers of America last year more than a million dollars.

If you have no stand on which to place the drinking water pail, try using a square wooden box just a little larger than the diameter of the pail. Set the water pail in the box and it will not be tipped over from hens jumping on the edge as is the case when a half empty pail is setting by itself.

Latest Market Reports

Wheat.		Rye.	
Tuesday, December 26.		Detroit.—Cash No. 2, 94c.	
Detroit.—No. 2 red at \$1.40; No. 2 mixed \$1.39; No. 2 white \$1.39.		Chicago.—89% @ 90% c.	
Chicago.—No. 2 red \$1.33½; No. 2 hard at \$1.25½ @ 1.26½; December at \$1.25½.		Toledo.—92c.	
Corn.		Seeds.	
Detroit.—Cash No. 2, at 79c; No. 3 yellow 78c.		Detroit.—Prime red clover cash at \$13.20; March \$13.35; alsike at \$10.75; timothy \$3.40.	
Chicago.—No. 2 mixed 72½ @ 73½ c; No. 2 yellow 73 @ 73½ c.		Toledo.—Prime red clover cash at \$13.55; alsike \$10.95; timothy, new, at \$3.50; old, \$3.55.	
Oats.		Hay.	
Detroit.—Cash No. 2 white at 52¢; No. 3, 50½ c.		Detroit.—No. 1 timothy \$16.50 @ 17; standard \$16 @ 16.50; light mixed \$16 @ 16.50; No. 2 timothy \$14 @ 15; No. 1 clover \$14.50 @ 15; rye straw \$11.50 @ 12; wheat and oat straw \$11 @ 11.50 per ton in carlots.	
Beans.		Feeds.	
Detroit.—Immediate and prompt shipment \$7.50.		Bran \$34 @ 34.50; standard middlings at \$33; fine do at \$35; cracked corn \$36; coarse cornmeal \$34; chop at \$30 per ton in 100-lb. sacks.	
New York.—Choice pea at \$8 @ 8.50; red kidney \$8.25 @ 8.50.		Fruit.	
Chicago.—Michigan choice hand-picked \$8.50; red kidneys \$9.50.		Apples.—Jonathans \$5.50 @ 6 per bbl; Wageners \$4.50; Greenings \$5 per bbl; Kings \$4.50 @ 5; Northern Spies \$4.50 @ 5.50; Baldwins at \$4 @ 5; cranberries boxes \$5.50.	
Buckwheat.			
Clean milling grain \$2.25 per cwt.			

Live Stock Market Service

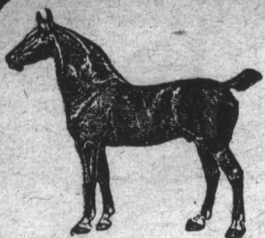
Wednesday, December 27.

DETROIT

Cattle.	
Good steers very dull; handy butchers steady; all other grades slow.	
Best steers	8.75 @ 9.00
Handyweight butchers ..	7.50 @ 8.00
Mixed steers and heifers ..	5.50 @ 6.75
Handy light butchers	5.25 @ 6.00
Light butchers	4.00 @ 5.00
Best cows	4.50 @ 5.50
Butcher cows	3.00 @ 4.00
Common cows	2.75
Canners	2.25 @ 2.50
Choice bulls	5.00 @ 5.50
Bologna bulls	4.25 @ 5.00
Stock bulls	3.00 @ 4.00
Feeders	5.50 @ 6.50
Stockers	4.50 @ 6.00
Milkers and springers	\$ 40 @ 70.00
Veal Calves.	
Market steady.	
Best	\$14.00 @ 14.50
Others	10.00 @ 13.00
Sheep and Lambs.	
Market slow and steady.	
Best lambs	\$15.00 @ 15.50
Fair lambs	13.00 @ 14.00
Light to common	9.00 @ 11.50
Fair to good sheep	6.00 @ 8.00
Culls and common	3.00 @ 4.00
Yearlings	12.00 @ 13.00
Hogs.	
Market steady to five cents higher.	
Mixed hogs	8.85
Pigs and lights	8.85
Roughs	7.25 @ 7.50
Stags	4.50 @ 5.00

CHICAGO

Hogs.	
Estimated receipts today are 2,600; holdover 5,937. Market steady to 10c higher. Bulk of sales \$8.30 @ 8.60; tops \$8.65; heavy 250 lbs up at \$8.40 @ 8.65; medium 200 to 250 lbs at \$8.55 @ 8.65; light 150 to 200 lbs \$8.55 @ 8.65; light lights 130 to 150 lbs \$8.50 @ 8.65; heavy packing sows 250 lbs up \$7.70 @ 8.10; packing sows 200 lbs up \$7.40 @ 7.70; pigs 130 lbs down \$8 @ 8.25.	
Cattle.	
Estimated receipts today are 14,000. Beef steers slow, about steady; she stock and bulls strong; calves 25 @ 50c higher. Beef steers medium and heavy weight 1100 lbs up \$11.50 @ 13; do medium and good \$7.65 @ 11.50; do common \$6 @ 7.65; light weight 1100 lbs down \$9.50 @ 12.50; do common and medium \$5.75 @ 9.50; butcher cattle heifers \$4 @ 10; cows \$3.60 @ 7.85; bulls bologna and beef at \$3.75 @ 6.75; canners and cutters cows and heifers \$2.75 @ 3.60; do canner steers at \$3 @ 4; veal calves light and handyweight \$9.25 @ 10.50; feeder steers \$5.50 @ 7.50; stocker steers \$4 @ 7.50; stocker cows and heifers \$3.25 @ 5.25.	
Sheep and Lambs.	
Estimated receipts today are 17,000. Shorn lambs steady; wool kinds slow, tending lower. Lambs 84 lbs down at \$13.25 @ 15.50; do culls and common at \$9.75 @ 13.25; spring lambs \$9.25 @ 13; ewes \$5.25 @ 8; ewes cull and common \$2.50 @ 5.50; yearling wethers at \$12.75 @ 14.75.	



No scars—no blemishes
GOMBAULT'S CAUSTIC BALSAM
does the work better than firing. Hair
positively grows back natural color

Reliable remedy for Curb, Splint,
Sweeney, Capped Hock, Strained
Tendons, Founder, Windpuffs,
Skin Diseases, Thrush, Spavin,
Ringbone, Throat or Bronchial
Troubles. Will not scar or blemish.
Supercedes all firing and cautery.

As a human liniment it is unsurpassed.
\$1.50 per bottle at druggists or by
parcel post.

The LAWRENCE-WILLIAMS CO.
Cleveland, Ohio

GOMBAULT'S
Caustic
BALSAM

NEW
WITTE Log Saw
Better—Faster—Lighter
\$99.50
From Fig. \$107.
Built for practical work
sawing logs. Users say
"It's the trick"—"Runs
Easy"—"Cuts Fast."
NEW
Throttling
Governor ENGINE
Runs on either KEROSENE
or GASOLINE. With tree
attachment added you can
Saw 'em Down
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Use engine for pumping
or other belt work. Write for
Complete Information—FREE.
WITTE ENGINE WORKS,
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Pittsburgh, Pa.

COW CLEANER
Removes the afterbirth of
cows and heifers without
injury and without force.
An afterbirth retained will
ruin your cow for the season. Assist nature
by giving Dr. David Roberts Cow Cleaner
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ers. Letters should state fully the history and symptoms of
each case and give name and address of the writer. Initials
only are published. When a reply by mail is requested the
service becomes private practice and \$1 must be enclosed.

Lameness.—Some time ago my horse
went lame in one front leg; since then
he has gone lame in the other limb.
Have applied several kinds of lini-
ment, leg opened, some pus runs from
it, but he is yet quite lame. I am at a
loss to know how to treat him. J. S.,
Bayshore, Mich.—Apply one part lysol
and thirty parts water to sore two or
three times daily.

Congested Quarter.—I have a six-
year-old cow which went dry two weeks
ago, except in right hind quarter which
has become swollen and hard. I milk
out of this quarter gargety milk and
it is followed with some blood. There
is a sore on end of teat which scabs
over which has to be removed before
milk can be drawn. R. C., Quincy,
Mich.—Touch sore on end of teat with
carbolic acid twice a day for a few
days apply equal parts of tincture of
iodine and camphorated oil to caked
quarter daily.

Shoulder Lameness.—I have been a
subscriber to the Michigan Farmer a
good many years; have derived much
benefit from it. I have a six-year-old
horse that I sweeney while plowing,
caused by changing collar, from a half-
sweeney (which was too short) to a
straight collar of proper length. Will
you prescribe a good liniment for this
case? W. E. C., Jerome, Mich.—Mix
equal parts of tincture of cantharides,
turpentine, aqua ammonia, raw linseed
oil together, shake well and apply to
atrophied parts two or three times a
week.

Sick Kittens.—Have two kittens five
months old which have diarrhea. Have
given them several doses of diarrhea
and colic remedy, but it failed to help
them. Their mother brings them field
mice, they eat plenty of food. Mrs. W.
B., Rose City, Mich.—Give each cat 15
drops of camphorated tincture of op-
ium at a dose three times a day until
bowel action checks, then give one-
grain doses of salol three times a day.
Their bowel ailment is the result of
what they eat. Give each of them one
dose of castor oil.

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

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