

# MICHIGAN FARMER

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ONE YEAR \$1.00  
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This house is a crumbling ruin from lack of paint. Where paint is not used, deterioration is rapid.

## Lead frees you from a weather tax

**H**OW much is your weather tax? Thousands of owners in the United States pay such a tax for the share of rain, snow, and sunshine that fall on their properties.

A billion dollars' worth of property crumbles beyond repair in this country each year. And this vast total includes the many millions paid by property owners as weather tax—money that lead would help to save.

Lead is the ugly duckling among metals. It isn't so handsome as gold. It isn't so strong as iron. Yet lead performs many functions—for which the other metals are not suitable. In the form of white-lead in paint it is man's mightiest protector of wooden and other non-metallic surfaces.

For interior painting of walls and woodwork these owners find that white-lead mixed with flattening oil not only protects the surface, but also gives a soft, beautiful finish. By mixing coloring matter with white-lead they obtain the color that will harmonize perfectly with any decorative scheme.

### Handy Book on Painting

If you want to know how to save surfaces of wood, masonry or metal with paint, write for our *Handy Book on Painting*. This book is a storehouse of paint facts and formulas and will be sent free at your request.

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*Dutch Boy white-lead* is the name of the pure white-lead made and sold by National Lead Company. It is extremely fine—so fine that it easily flows through a silk screen containing 27,000 holes to the square inch. This gives opacity and smoothness of film.

On every keg of Dutch Boy white-lead is the picture of the Dutch Boy Painter shown below. This trade mark guarantees a product of the highest quality. Dutch Boy products also include red-lead, linseed oil, flattening oil, babbitt metals, and solder.

National Lead Company makes lead products for practically every purpose to which lead can be put in art, industry, and daily life. If you want information regarding any particular use of lead, write us.

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New York, 111 Broadway; Boston, 131 State Street; Buffalo, 116 Oak Street; Chicago, 900 West 18th Street; Cincinnati, 659 Freeman Avenue; Cleveland, 820 West Superior Avenue; St. Louis, 722 Chestnut Street; San Francisco, 435 California Street; Pittsburgh, National Lead & Oil Co. of Penna., 316 Fourth Avenue; Philadelphia, John T. Lewis & Bros. Co., 437 Chestnut Street.



Save the surface and you save all.

Approximately 350,000,000 pounds of white-lead are used every year in this country. This makes enough paint to cover with one coat about 3,000,000 houses of average size.

From the days of our forefathers, white-lead has been the standard for preventing decay and deterioration and for providing the desired decoration. Wise owners everywhere are obeying the rule, "Save the surface and you save all," and are covering the surface with white-lead paint. Thus they avoid paying weather and repair taxes.

For exterior painting they find that white-lead and pure linseed oil make a paint that sticks tight to the surface, is impervious to moisture, and lasts long. And they know that fresh-looking, well-kept property is a sign of prosperity, of cleanliness and respectability within.

## WASHINGTON NEWS

### SENATE READY TO CONSIDER IMPORTANT AGRICULTURAL

**T**HE McNary-Haugen bill and the Norris-Sinclair bills are now ready for action by the senate, having been reported out favorably by the senate agricultural committee. It is probable, however, that the house will take action on the former bill before its consideration in the senate because of its tariff provisions.

The McNary-Haugen bill as reintroduced by Senator McNary is amended to meet the recommendations of the committee. The life of the corporation created by the bill is reduced from ten to five years, and the terms of the executive officers from six to three years. The capital stock of the corporation is placed at \$200,000,000, to be subscribed by the United States, and the corporation is authorized to borrow money and issue notes up to twice the amount of its authorized capital.

The McNary-Haugen bill as emergency legislation will have the right-of-way over the Norris-Sinclair bill. Senator Arthur Capper says that both bills have merit, and he believes that in time the Norris-Sinclair bill will form the basis of legislation for the creation of a permanent corporation for marketing farm products, but he is strongly in favor of the McNary-Haugen bill as a relief measure to meet the present urgent needs of the farmers, and as leader of the farm bloc he is using his best efforts for the success of the bill. The prospects are that it will be reported out favorably by the house committee within a few days.

### EXTEND HELP TO NEW MEXICO FARMERS.

**A** SENATE resolution authorizing an appropriation of \$1,000,000 for the relief of drought-stricken farmers in New Mexico has passed the house. The money will be loaned to farmers to purchase seed and feed.

### TRUTH-IN-FABRICS BILL GETTING CONSIDERATION.

**A**FTER four years of postponement and delay, hearings on the Capper-French truth-in-fabrics bill before the House Interstate and Foreign Commerce committee have been resumed and are now in progress.

Congressman French, leading the proponents of the proposed measure, told the committee that the wool growers and other advocates of the bill had informed him by telegram and letter that their opinions were unchanged in regard to the bill, and that they were willing to base their case upon the evidence submitted at former hearings; that the arguments presented then should be considered in dealing with the bill now.

### CONCERNED ABOUT PROPOSED INCREASE IN PARCEL POST RATES.

**T**HE farm organization representatives in Washington are much concerned over the proposal to increase the parcels post rates 300 per cent. They say it would cripple the service. The object is to raise the money to give the postal employees larger salaries. If the bill now before congress passes, in many instances the parcels post rate would be even higher than the charge for first-class mail matter.

Politics and the express companies are seen behind this movement to increase salaries at the expense of the farmers. Strong influences are being brought to bear in favor of the proposed measure on the grounds that the

postal employees are inadequately paid, and the indications are that it will pass congress.

### WANT TO TAX RADIO EQUIPMENT.

**T**HE senate proposal to levy a ten per cent tax on radio equipment is meeting with much opposition. It not only hits the thousands of farmers who have found radio to be a necessity in their production and marketing operations, but it is a sales tax against which the farm organizations have contested for many years.

### MOVES TO TAX FARM LOAN BONDS.

**S**ENATOR DAVID A. REED, Pennsylvania, announces that he will introduce an amendment to the income tax law to tax all future issues of municipal, state, federal and farm loan bonds.

Secretary of the Treasury Mellon has given his opinion to the effect that such legislation would conflict with the Constitution. It is the belief of some of the farm organization representatives that if the bill is passed the states and municipalities will be able to have the law set aside in so far as it relates to their own securities, leaving the tax remaining on the incomes from farm loan bonds, the farmers getting the raw end of the deal. It is regarded as another attempt to wreck the federal farm loan system.

### WRONGDOERS NOT PUNISHABLE UNDER STOCKYARDS ACT.

**T**HE packers' and stockyards administration is under investigation by the house committee on expenditures in the department of agriculture. It is alleged by John M. Burns, of the department's legal staff, that the stockyards administration under the direction of Chester Morrill, has been too friendly with the packers and live stock exchanges at the expense of the farmers.

A weak point in the law, says Mr. Burns, is the lack of a provision that will enable the secretary of agriculture to punish wrongdoers. Now if a commission merchant should sell a producer's hogs and refuse to pay him the money, in fact, embezzle the proceeds, all that the secretary could do would be to give the man a hearing and if found guilty issue an order that he cease and desist from such practices in the future.

### DEFEND EIGHTEENTH AMENDMENT.

**F**RIENDS of prohibition enforcement have reason for encouragement in the developments in Washington within the past few days. At a largely attended law enforcement conference, a large number of representative society women pledged themselves to work for enforcement of the eighteenth amendment and to vote only for dry candidates.

The president of the Daughters of the American Revolution at the opening session of the annual meeting, made a powerful plea for law enforcement, declaring that the eighteenth amendment to the Constitution was ratified because a majority of the people in this country so willed, and that it will never be repealed. Asserting the loyal respect for that amendment is the duty of every citizen, she declared that no law can be flouted without serious consequences to the citizen and to the state.

Attorney-General Stone is demanding more rigid penalties for liquor law violations, urging jail sentences for violators of the law.



DEVOTED  
TO  
MICHIGAN  
VOLUME CLXII

# MICHIGAN FARMER

AND LIVE STOCK JOURNAL  
PUBLISHED WEEKLY. ESTABLISHED 1843.  
A Practical Journal for the Rural Family  
MICHIGAN SECTION THE CAPPER FARM PRESS

QUALITY  
RELIABILITY  
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NUMBER SEVENTEEN

## Coming Through with Alfalfa

*A Decade of Experiences Gives a Few New Angles to Its Culture*

By W. A. Freehoff

I WAS reared on a farm where a first grade crop of timothy hay was by no means despised. If clover failed to catch, there was always enough good timothy to go around, even for the dairy cows. In our district the early summer rains come just about the time clover is ready to be harvested, and it is not always an easy matter to get good green clover hay into the mows even when there is a splendid stand.

Naturally, we took what milk we could from the cows, and let it go at that. Labor was no particular problem in those years, and the milk check was practically pure velvet. But there was an enthusiastic lot of young farmers in the state preaching the value of legumes in the farm rotation, and particularly alfalfa. The hide was stripped off timothy, and the hide nailed upon the barn walls for everybody to see. Raise clover, was the universal advice, and it was good advice.

Then along came another legume which promised to be even more valuable than clover. That was alfalfa. Clover was good for only one full crop of hay a year. In favorable seasons some fine second cutting could be obtained, but it was hard to harvest. The second season clover would run out and timothy would take its place. Constant re-seeding was necessary. Not so with alfalfa. A good stand of alfalfa, provided it did not winter-kill, was good for several years, and it was good for at least two heavy crops of hay in a season. And it was better hay than the clover, although the scientists did not think so at first. Perhaps one reason was that it was usually harvested in better shape.

In many western states, particularly where irrigation is practiced, alfalfa thrives like a weed. Because of the dry weather prevailing, it is nearly always possible to harvest the crop in pea green form. Then it is baled and shipped to the dairy farmers of more eastern states. Much of this hay is of very good quality, particularly the second cuttings. Much is quite inferior, particularly the first cuttings. After

it is baled and shipped 500 to 1,000 miles it costs the dairy farmer who feeds it from twenty to nearly thirty dollars a ton, depending upon the grade and the general condition of the hay crop all over the country.

The dairy farmers of the middle west and east are spending millions of dollars for shipped-in alfalfa hay and high protein mill feeds. About half of the price of the hay is absorbed in freight rates. But the dairy farmers in the east are able to grow alfalfa on their own farms to advantage, in spite of the contrary opinion held by many.

The average yield of alfalfa hay in the lake states is nearly three tons an acre. This is, at least, according to our agronomists, a ton more than the hay produced with any other crop. Three tons of hay an acre will give a gross market value of from \$50 to \$75 an acre. The average annual cost of growing and harvesting an acre of alfalfa over a period of years is seldom in excess of \$30. The profits obtained by alfalfa thus exceed by a wide margin from that obtained by such crops

as oats or other small grain.

In fact, right in my own country, which is a leading dairy community, two brothers have operated a commercial alfalfa farm for many years with considerable success. They keep very little live stock, selling their hay to the dairy farmers of the neighborhood who are unable to raise enough for their own large herds of cows. The hay is harvested by power machinery and in a hurry, in true western style. The farm is increasing, rather than deteriorating in fertility and value. And in spite of frequent severe winter killing in the state, these brothers have alfalfa for sale every year. Alfalfa thus offers two distinct possibilities to the farmers of the dairy belt. First, it may be grown pleasantly and with profit in a commercial way for sale to dairy farmers. Second, dairy farmers may give it a prominent place in their crop rotation, and raise some of the protein they are now buying at high prices on the open market.

For it is a fact that the farmer who has good corn silage and alfalfa hay,

can get along without buying any feed, or at least, he need not buy very much. That is the plan pursued by many small dairy farmers. They realize that by shooting grain into their cows they could bring up the yield, but as long as mill feeds are high in price, they are content to get a fair yield of milk from home-grown feeds and will not buy expensive concentrates.

Do not cut alfalfa too early. I just noted the following in a bulletin: "The detrimental effects of early cutting in reference to weakening the growth and lowering the yields of alfalfa as well as reducing its winter resistance has been worked out quite carefully during the past three years. Early cutting and its attending ills is of such a serious nature that in actual trials heavier yields are obtained from two crops of alfalfa cut in the full bloom stage than from three crops cut in the bud or tenth bloom stage. Late-cut alfalfa may be somewhat coarser in quality but the benefits in reduction of labor and the increase in yields, together with the checking of weeds and grasses, seems to more than offset the reduced quality of hay from cutting in the later stages of development."

Old alfalfa growers, after checking up results for the past ten years, have arrived at a few additional conclusions.

1. New alfalfa seedings stand dry weather far better than red or alsike clover or timothy.
2. Early removal of the nurse crop by cutting the grain for hay or by seeding with early canning peas gives alfalfa a good vigorous start and makes a catch crop almost sure.
3. It is possible to grow alfalfa on soil without lime in the limestone regions where the surface soil is often somewhat sour, but where the sub-soil may contain considerable lime. This is due to the fact that alfalfa roots penetrate many feet into the subsoil.
4. New seedings are hardier and withstand winter-killing better than old stands.
5. Improved strains of Grimm alfalfa seem to be the hardiest.



Late Cutting of Alfalfa Increases the Yields and Reduces Labor Costs.

## Are County Agents Making Good?

*The Result of Applying the Yardstick to the Work of One County Agriculturist*

IF possible, the best way to determine whether a county agent has satisfactorily filled his position, is to apply the yardstick to his work. Fortunately, it is the custom of the directors of a county farm bureau to lay out a work program at the beginning of the year. This program is the goal toward which the county agent is supposed to direct his efforts for the twelve months. Laying this program, or yardstick, over the work of the year should give an idea of the success of the work in question.

Of course, many things arise in the course of the year that did not occur to the minds of the directors when the programs were adopted. But, for the benefit of thousands who are not informed on the versatility of the duties of the county agents, we are going to apply the "yardstick" to the work in

one county of the state on which we happen to have the information.

The county is Livingston. A little over a year ago the board of farm bureau directors of that county laid out a program of work for the season of 1923. We also have County Agent Bolander's report on the work done during that year.

### Soils and Crop Work.

As to soils and crops the board felt that 2,000 acres of alfalfa should be added to the acreage devoted to that crop, that variety tests of this crop be undertaken, that soy-beans should be given a trial, and that seed corn projects be launched.

At the close of the year it was found that 11,200 acres of alfalfa were seeded in the county during the year, of which 6,139 acres were reported successful. Tests as to the comparative

value of imported alfalfa seed and native strains were started on an acre plot. Three farmers were successful in the production of soy-beans, one taking sixteen loads of hay from six acres. Nine club members and four farmers were assisted in securing pedigreed seed corn, while 250 bushels of seed were selected and fire-dried. The same type of service was given three potato farmers who desired certified seed potatoes, and the field of one of these was inspected and passed on as meeting the requirements for certification. Also four farmers were assisted to supplies of Robust beans with results favorable in all cases.

In connection with this division of the program the county agent also supervised the excavation of 400 yards of marl, urged the purchase of five carloads of lime, advised 183 farmers

to use lime, tested 339 samples of soil, visited ninety-five farms for the purpose of testing soil, and advised many farmers in regard to seed treatment for smut.

### Live Stock Activities.

We shall next measure up the live stock program. Here the board wanted two cow testing associations formed, one bull association and a special bull association block launched, the county cleaned of cattle tuberculosis, more pure-bred breeding rams, ten sheep club members, ten pig club members, ten poultry culling demonstrations and cost of production data on seven flocks.

Here is what happened: Two cow testing associations and a regular bull association with a special block known as the "central sire," were organized. (Continued on page 610).



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## CURRENT COMMENT

**Out Of The Frying Pan**

ABOUT a year ago a friend quit farming. He declared he had worked on the farm for nothing long enough. He had a sale and found he had accumulated more than he thought. After paying up all his debts he took what he had left, along with his family, and moved to the city.

He promptly got a job that paid him in the neighborhood of \$40 a week. After several weeks he was able to locate a few rooms where he, with his little family, could keep house. For six months work was steady, it was comparatively easy, too, not hard and sweaty like farm work, and they had laid aside \$200. They were obliged to move a couple of times because the property they had rented, was sold. Finally they bought a modest home, paying all their savings down and agreeing to pay the rest like rent.

Then began the lay-offs. At first, one day a week, and they had to deprive themselves to make the payments on their home; two days a week and expenses could not be met. He is working half-time now, with the demand for cash to pay the costs as great as ever. We leave him here.

This is a true story, but it would not be complete without also telling of the renter who took this man's place on the farm.

This renter was in no better circumstances than the one who quit. He was having just as hard a time to make ends meet. He had about half an equipment of stock and tools and was considerably in debt. He went in debt several hundred dollars more to complete the working outfit he needed and was to pay \$600 annual cash rental for the one-hundred-acre farm. He did most of his own work, changing with the neighbors when necessary to have help.

He sold his crop of beans—raised on a fourteen acre field—soon after threshing from the field, for nearly \$500. The same acreage of beets brought him more than \$1,000. The milk from eight grade cows returned in cash better than \$1,200. Twenty acres of clover and alfalfa, twenty acres of corn and ten acres of oats, together with the purchase of two tons of feed, have kept the feed racks well filled and a flock of chickens, a few fat hogs, and a good garden have well-nigh cared for the family. This man is starting another year with a good and complete equipment, no debts, money to buy whatever he needs, and

a monthly income from ten cows of over \$100.

This is also a true story. Both men got out of the frying pan all right, now didn't they?

## More Data For Farmers

One is by the price index. An excess of production is shown in low prices, while a scarcity is reflected in high prices. But this information comes late. By the second method the producer would be in a better position to prepare himself to meet high or low markets through knowledge of prospective world crops and their relation to normal world consumption.

It is the purpose of the Ketcham bill, introduced by Congressman Ketcham of the fourth district of Michigan, to provide such a means of anticipating the production of competing agricultural countries, and indirectly to mark out the fields in which American farmers might operate to the greatest economic advantage. The bill has already passed the house and is now before the senate for consideration.

The department of agriculture is given authority, under the provisions of the bill, to gather information with regard to supply of and demand for agricultural products throughout the world. To accomplish this, the state department will be authorized, if the measure becomes law, to accredit as agricultural attaches with diplomatic standing, such foreign commissioners as may be designated by the department of agriculture.

This measure would seem to strike at the heart of our chief agricultural trouble. It ought to enable the American farmer to find a way whereby production can be more nearly accommodated to consumption. It ought, further, to discover outside markets for certain of our American farm products. It has the still further advantage of collecting the data through agencies friendly to the farmer.

It would be well to let your senators understand your attitude toward the bill.

## M'sery Has Company

You may be surprised when you learn that it was not a farmer at all, but a supposedly prosperous business man.

Farmers are not the only people who are feeling the economic pinch these days. The business man's present predicament may be due to the farmer's recent plight, but in times like these each in turn is bound to get his grilling.

Where is high-priced labor going to "get off at" when business can no longer afford to patronize it? Will the labor bubble be the next to burst? The way the world lives at present, we are all so interdependent upon one another that it is futile to think that any one group of people can long remain in a favored class.

## The State Income Tax

At one time visible property seemed to be the best index of the owner's ability to support the government. But today so much of our wealth is tied up in intangibles that visible property no longer enjoys its former distinction. Instead, therefore, we have come to feel that one's income more nearly represents what he should give to keep the government functioning.

Naturally, those who would pay under the income tax system oppose a movement now on to establish a state income tax for the support of the state

government. All farm organizations are, however, giving united support to the movement. All farm organizations are, however, giving united support to the movement. Petitions are now being circulated for a proposed amendment to the state constitution to provide for a state income tax, on the ballot for the regular election next November. Of the sixty thousand signatures required, forty thousand have already been received.

While there is bound to be vigorous opposition by that growing army of high-salaried, non-property owners, public opinion appears to be gradually swinging toward the extension of the income tax principle, and it is not improbable that we may have such a source of state revenue provided for in our constitution before long. It will require, however, the active cooperation of property owners everywhere in the state to put it across.

## Just In Retrospect

SOME of us can recall when Horatio Earl, the great good roads enthusiast, and one-time governor aspirant, used to amuse as well as educate farmers' institutes attendants as to good roads.

With considerable oratory, he used to tell the horse-owner farmers why the automobile owner should stand most of the road tax. He vividly explained that the horse put forth one horsepower of energy toward destruction of the road, while the auto used twenty times as much force in tearing up the road. Therefore, the auto owners should be taxed in proportion to the amount of damage they did. This brought much applause from the horse-owner farmer who was not much interested in good roads which those city folks would use mostly for pleasure purposes.

We just wonder how this twenty-year-old argument would hold today? We just wonder if there are not thousands of farmers who kick about poor roads when they take the family out for an outing, but glory when a stretch of good roads opens before them on which they can pull down the throttle on the old bus?

We have had recent indications that there are. The boys and girls have been writing to Uncle Frank about what spring means to them. One of the chief things mentioned was that spring means the time when the roads open again so that they can go auto riding. Apparently time brings changes.

## Ease Of Degradation

MAN aspires to attain; that is the impulse of every human heart. But he perspires with determination and attains not. He does not fail, nor does he succeed. But he both succeeds and fails. He succeeds in partly reaching his ideals, but fails to attain their perfection.

But, in our striving and perspiring, we often forget the ideals for which we were striving, but with ease come to do things which degrade our ideals and ourselves. It takes effort to continuously strive toward our goals, our ideals, but it is of no effort to let go and go on the down grade.

To uphold a standard is an effort; to degrade it is an easy thing to do. It is just as hard to uphold an agricultural standard as a moral one. We set out to grow good fruit and then degrade our product and our reputation by shipping undergrade apples in the baskets we send to market. We get our chickens to produce eggs and then include in our basket those eggs which were found in an ancient but newly discovered nest. We sloop our hogs well before we sell them, and fill well the crops of our chickens before they are sent to the butcher.

It is easy to do these things, and it is hard to maintain a standard, but it

pays. The only thing that pays is to start with a high ideal and then persistently keep working toward it. So, while we perspire at our daily tasks, let us keep in mind the ideal we aspire for, for that will keep us from the ease of degradation.

## To Reduce Embargoes

EMBARGOES are the only available means for meeting certain emergencies. Quarantines on the movement of plants and animals are necessary for the prevention of the spread of diseases for which we have no method of control once they are established.

But methods ought to be studied whereby the evils of the embargoes may be reduced to the lowest terms. In this connection we are pleased to note that the federal horticultural board which has in charge the laying of quarantines on the movements of plants, is now becoming interested in using the inspection and certification methods as a substitute, where possible, for the old iron-clad quarantines. The progress of this work will, however, depend much on the cooperation to be had from the individuals affected through plant or animal quarantines.

## House-cleanin'

EVERY once or twice a year Sophie gets what you call a acute spasm of disturbance. She just spoils our smooth and even ways of livin' fer a week or so by havin' everythin' upset so you gotta eat standin' up and sleep layin' down. And, believe me, when one of them house-cleanin' days is over, you kin sleep layin' down anywhere.

House-cleanin' is a permanent part of the human institushun called home. It chiefly consists of chasin' dirt what has been reposin' peacefully on one place, to some other place where it kin repose fer another six months.

Now that ain't Noah Webster's definishun of house-cleanin'; it's my own.

Noah ain't never been at a loss fer words, but he never said anythin' about house-cleanin', maybe because it would not look good in print. Seein' as he neglected his duty in that respect, I gotta resume the responsibility.



House-cleanin' don't only chase dirt around but it chases good natshure out a doors durin' the procedure, 'cause house-cleanin' and good natshure is firstclass enemies. And after house-cleanin' is over it's kinda hard to get your good natshure back again, 'cause you don't know where ta look fer it. It's kinda been misplaced in the what you call fracuss.

They say it's good fer human natshure to have a change. Maybe that's why the womin folks like to clean house, 'cause maybe that's the only way some of them get a change. They kin put the sofie where it wasn't before, and etc. and etc., and that makes quite a change of scenery fer them, which the doctors say is good fer the health.

I couldn't write nothin' about anythin' else, 'cause my what you call environment is nothin' but house-cleanin'. I'm writin' this on the kitchen stove 'cause that's the only place I kin find. No, the fire is out, so this won't be no hot stuff.

Tonight I gotta paint the kitchen floor after the kids get ta bed. Sophie ain't got much faith in my artustic ability, but she says since that artust lady has been teachin' me I oughtta do a good job on the floor.

I'm just hopin' this house-cleanin' is over by Easter, 'cause I wanta say, "Peace on Earth, Good Will ta Men." Now it's Pieces all around, and Ill Will fer Men. HY SYCKLE.



# Lime in Different Styles

How Shall the Busy Farmer Know How Much to Apply of Each

By M. M. McCool

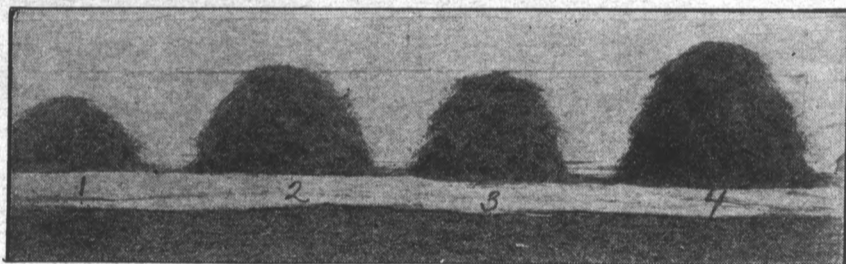
**T**HERE are several conditions one should consider in deciding upon whether or not he should use finely ground limestone, medium ground limestone, or the hydrated lime. We have been conducting experiments of various kinds on the use of lime on soils for a number of years.

At the Cass County Farm we laid out a series of plots in 1917. This series has been conducted as originally planned and some very interesting and important results have been obtained from it. Each of the plots received the same amount of calcium or lime, 2,960 pounds of hydrated being applied, and 4,000 pounds of the marl and limestone were spread on an acre. All of the plots received 100 pounds of nitrate of soda each year except when sweet clover was grown, and 200 pounds of sixteen per cent acid phosphate on alternate years. The results except for 1919 are given in the following table:

Plot No.	Rye, 1918, bu.	Wheat, 1920, bu.	Sweet Clover, lbs.	Rye, 1922, bu.	Corn, 1923, bu.
1	21.6	16.0	2,556	28.5	26.1
2	18.4	19.2	2,336	21.7	16.8
3	21.2	16.0	1,712	24.2	29.3
4	18.3	15.5	1,312	18.5	21.6
5	14.4	11.7	1,376	20.	36.
6	12.4	9.6	.....	17.4	20.4
7	12.8	3.4	.....	14.7	8.2

Plot 1 received hydrated lime; plot 2, marl; plot 3, 80-mesh limestone; plot 4, 40-60-mesh limestone; plot 5, 10-20-mesh limestone; plot 6, no lime; plot 7, no lime or fertilizer.

These results show that at the end of the first five-year period the growth shows a gross return in favor of the



Showing effect of different kinds and amounts of lime. (1), 1,000 lbs. hydrated lime produced 4,230 lbs. of sweet clover per acre; (2), 1,500 lbs. hydrated lime produced 7,924 lbs. of sweet clover; (3), one ton of agricultural lime produced 9,463 lbs.; (4), three tons agricultural lime produced 11,620 lbs. of sweet clover.

hydrated lime and then the marl with the limestone somewhat lower as the latter years show, however, that there is a tendency for the very fine materials to become relatively less efficient than the somewhat coarser ones. size of the particles increased. The

In another series of tests on the Cass county farm hydrated lime in different quantities was compared in its effect to pulverized limestone and also limestone which would pass through a 200-mesh screen was compared with different amounts of marl. The lime was applied in the spring previous to seeding sweet clover. The following year sweet clover yields were ascertained.

The results show that 1,500 pounds of hydrated lime was not as effective as 2,000 pounds of pulverized stone, and that three cubic yards of high-grade marl was not as effective as three tons of limestone that would pass the 200-mesh screen, but the greatest yields were obtained where six cubic yards of marl were applied. Results obtained from the hydrated and pulverized lime series are given by means of the photograph and figures attached to it.

As the result of these and many other experiments and observations we have steadfastly maintained that under most conditions it is doubtless more practical for a farmer to use limestone, preferably the finer material such as the finely pulverized stone or the medium finely ground limestone than it is for him to use the hydrate.

We have adopted the following figures for a working basis: Five hundred pounds of hydrated lime, 800 pounds of finely pulverized lime or 100 pounds of medium finely ground material should be considered to give the same results the first year of application, provided they are well incorporated with the soil and there is a sufficient amount of rainfall.

We do not consider that as a rule it is advisable for one to apply as small quantities as these, although there are doubtless some soils in the state that will respond profitably to small applications of lime, especially where the subsoil is neutral or sweet near the surface.

The statements that are frequently made that a few hundred pounds of hydrated lime are as good as a ton or more of limestone are erroneous and doubtless are the cause of a rather high per acre cost of lime in several of the lower counties of Michigan. Another general misconception is that hydrated lime is likely to be injurious to the young crops. Where it is applied in practicable quantities there is no danger of it being harmful, much larger quantities being required to cause injury than is commonly believed.

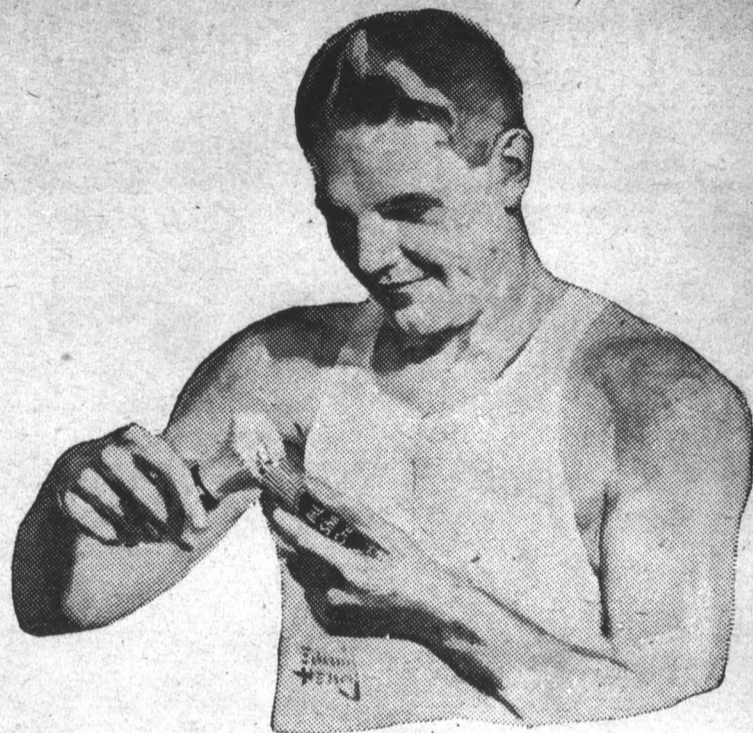
If one who contemplates the use of lime utilizes the above ratios on the relative amounts that we have found to be satisfactory, he can easily decide which is the most practicable for his use under his conditions. The distance of hauling and the cost of application, of course, must be considered as well as the cost of materials at the station.

This information every farmer knows, or if he does not know, he can easily obtain it.

### Interesting Results in Rhode Island.

Other experiment station workers have investigated this question. At the Rhode Island Experiment Station, experiments were made in which hydrated lime was compared to pulverized limestone that would all pass a ten-mesh screen and an eighty-mesh screen respectively. Several crops were grown and the results for a five-year period are interesting.

The liming materials were applied in amounts equivalent to 2,140 pounds of calcium carbonate per acre. The five-year average yields of the unlimed plots were 2,180 pounds of alfalfa, 278 bushels of carrots, ninety-two bushels of beets, and 1,940 pounds of barley hay, and for the hydrated lime plots the average yield for alfalfa was 4,180 pounds, carrots 338 bushels, beets 243 bushels, barley hay 2,540 pounds. Where the soil received ten-mesh limestone the alfalfa yield for a five-year period was an average of 3,640 pounds, carrots 311 bushels, beets 226 bushels, and barley hay 2,540 pounds, and where the eighty-mesh limestone was used the average yield of alfalfa was 3,260 pounds, 362 bushels of carrots, 227 bushels of beets, and 2,340 pounds of barley hay. The authors conclude that hydrated lime is more effective the first year, but for the five-year period the ten-mesh product is practically as good as an equivalent amount of the hydrated lime.



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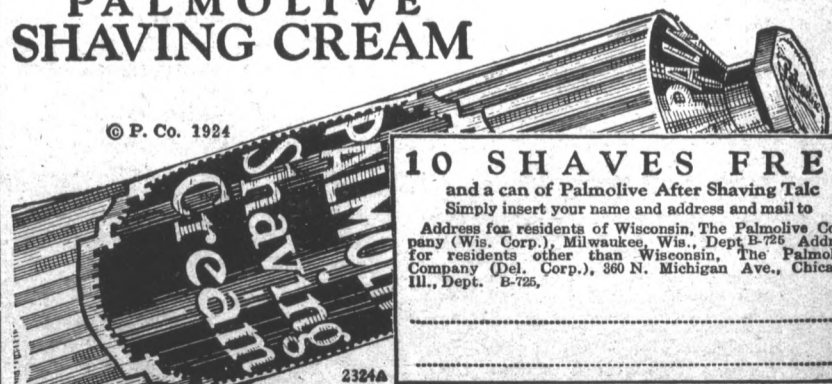
There are new delights here for every man who shaves. Please let us prove them to you. Clip coupon now.

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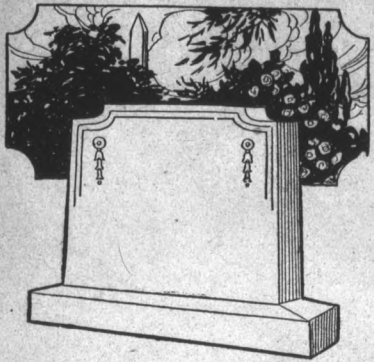


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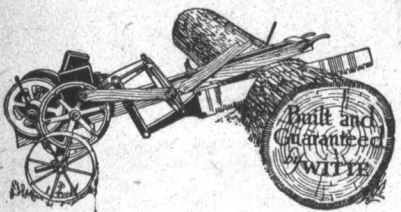


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**LICENSE FOR SELLING.**

I live one-fourth mile from a little unincorporated village. I want to buy, butcher, and ship veal calves. Do I have to have a license, and, if so, where can I procure such a license and what would it cost? Does one have to have a license to buy and ship poultry?—L. H.

No license is required to buy and ship poultry. The authority to kill and sell beef and veal without license extends only to the farmers who raise and kill them. Application should be made to the board of health of the city or village where the meat is to be sold.—Rood.

**LIFE LEASE NOT TERMINATED BY MARRIAGE.**

A. has a life lease on farm. If A. marries, does that break life lease? In what way does it affect the life lease?—E. M. W.

Unless the instrument creating the life estate specifies that it shall terminate upon marriage, the rights of the life tenant are not affected by the event.—Rood.

**TAX EXEMPTION.**

Can I be exempt from taxes? Two years ago I bought ten acres of cut-over land (muck). I put up buildings and am living with my family, clearing land little by little. When I went to pay my taxes, I told them I wanted to get exemption, and they told me they did not know about such exemption in the state of Michigan. Have paid taxes for the past two years.—G. S.

The statute covering this matter is Compiled Laws 1915 Sec. 4192 and manifestly contemplates that the exemption shall be claimed the first year after the purchase; but there seems no inconsistency in making the claim in any later year within five years. The exemption must be claimed from the supervisor at the time of the assessment in the spring.—Rood.

**FOR PERMANENT PASTURE.**

I have a hilly field which I intend to seed for permanent pasture this spring and sow oats as a nurse crop. Would it do any harm to pasture these oats after July 1? Would it be as good for the grass seed to work the ground a few weeks longer and sow that much later? What would be the best fertilizer to sow? I would do almost anything to insure a good catch of permanent pasture, but don't care to harvest oats unless it is for the best.—C. S.

If the pasture seeding has made a strong vigorous growth, it would not be detrimental to graze it lightly late in the season. As a rule, however, seedings are not well enough established to graze during July and early August.

Would recommend the use of acid phosphate or ammoniated phosphate to aid in establishing pasture seedings. The most of the harm is done by a nurse crop during the last two or three weeks it is on the ground. Your seeding would likely prove more successful if you would cut the oats for hay rather than allowing them to remain on the land and be pastured off.—C. R. Megee.

**SUDAN GRASS.**

I have a piece of heavy clay soil that bakes down hard. I was wondering if Sudan grass would grow on it. When is the best time to sow it, how much seed to the acre, and is it good for cow feed? If I plowed it and top-dressed it with manure would it need any other fertilizer on it?—B. E. G.

Sudan grass is increasing in favor among Michigan farmers as an annual hay and pasture crop. It has about the same feeding value as timothy hay and is practically the only crop that may be sown from May 15 to June 15, and produce abundant pasturage the same summer. From

twenty to twenty-five pounds of seed per acre should be sown solid with a grain drill about the middle of May. The use of barnyard manure will be a decided benefit to the crop.

Sudan may be cut for hay from the time it is heading out until the seed reach the late dough stage. In the southern part of the state a second crop is oftentimes secured. In the vicinity of Lansing the second crop should not be relied upon but considerable second growth will be secured for pasture or plowing under. In our tests here at the Michigan Agricultural Experiment Station in a three-year average Sudan grass has outyielded all annual crops, except corn, in yield of air-dry hay per acre.—C. R. Megee.

**FORECLOSING MORTGAGES.**

A. holds a first mortgage on certain piece of property given by B. B. sells the property and takes a second mortgage from C. A. takes foreclosure proceedings and the property is sold for only a trifle more than enough to satisfy first mortgage. Will the second mortgage still be a lien on said property so that a clear title cannot be given? Or can the second mortgage also be foreclosed?—J. J.

Foreclosure of the first mortgage cuts off the second if proper notice is given.—Rood.

**TIMBER TRESPASS.**

A. bought some timber, had a surveyor run the lines. Surveyor guaranteed lines not to be six feet out of the way. After timber was cut B. who owned the adjoining land, said A. trespassed. A. got the same surveyor to run lines again, who gave A. a written paper as to the amount of trespass, signed by surveyor and helper. B. hired the same surveyor, started from a different corner post and made the trespass three and one-half times as large as when he ran lines for A. Does A. have to pay? He has already paid the amount of trespass first given him by the surveyor. Surveyor has run lines here for the last twenty or thirty years, so is a qualified surveyor.—J. B.

A person cutting timber from the land of another is liable for the damages done, notwithstanding he has had a survey made, unless the owner of the adjoining land joined with him in the survey and agreed to be bound by it.—Rood.

**LIABILITY FOR STOCK.**

An agent sold me stock in a truck company—one-fourth down, and he took my note for the balance. Since then the company has failed and is in receiver's hands. Now I have received notice from a lawyer stating that it must be paid at once or they will sue for it. I am unable to pay it, as my stock and tools are all mortgaged. If they sue, what grounds could they take me on? Can they take my crops as payment? How much stock and tools can I hold that can't be taken in that case?—F. B.

A person who has subscribed for stock is liable to the creditors of the company for any unpaid balance on the stock. There is the same exemption from execution as from other judgments—homestead to \$1,500, sewing machine, books to \$150, household goods to \$250, horses and tools of trade to \$250, ten sheep, two cows, five hogs, feed for the above and for his family for six months.—Rood.

**LIABLE FOR INJURY TO GUEST.**

If I invite a party to ride with me and we meet with an accident and any of the parties are injured, can they collect damages of driver of the machine if he is sober and drives with care?—Subscriber.

One not a common carrier and inviting another to a free ride is liable to the guest for injuries received through his negligence, but is not an insurer.—Rood.



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Cloverland News

ROAD BUILDERS MEET.

ALL of the Upper Peninsula counties were well represented at the annual meeting of the Northern Michigan Road Builders' Association held at Menominee late in March. While the several counties will not get the amount of new road construction this season that they want, Commissioner Rogers is reported to have expressed his very great appreciation of the hearty spirit of cooperation exhibited here. It was announced that the new system of road-marking that is to be put in force this year, would be the equal of that found in any other state and better than in most. An improved map service is also being prepared. The officers of the association for the ensuing year include Mr. K. I. Sawyer, president; J. E. McCarthy, vice-president, and R. K. Mason, secretary-treasurer.

MENOMINEE FARMERS ACTIVE.

A SERIES of meetings were held in Menominee county, early in April, for the purpose of promoting the growing of alfalfa on the farms. A considerable increase in the alfalfa acreage is predicted by Mr. Karl Kurtz, county agent. These alfalfa meetings were conducted by Mr. Larry Kurtz, state crop specialist, and James Wells, state dairy specialist of the M. A. C. Two carloads of sodatol were delivered at Carney and Stephenson in mid-April, for land-clearing purposes. Menominee county has three federal farm loan associations and Menominee farmers are advised to place their requests for loans early.

LAND-CLEARING INSTRUCTION TO BE CONTINUED.

WHILE Mr. L. F. Livingston, in charge of land-clearing work in the Upper Peninsula on behalf of the Michigan Agricultural College, will not conduct land-clearing trains and tours this season as during the two preceding years, he will give instruction and demonstrations wherever these may be wanted. He will also feature land-clearing films for purposes of instruction. He is collecting films showing the use of home-made devices already developed by local farmers.

In Ontonagon county experimental breaking of raw land will be carried out under the direction of Mr. George Amundson, of the land-clearing service, M. A. C. It is stated that orders for sodatol placed here this year amount to fifty per cent more than for any preceding year. The Upper Peninsula Development Bureau's boards of directors recently appropriated \$300 to promote and assist land-clearing and a similar amount for club work.

COUNTY AGENTS IN DEMAND.

AS illustrating the demands made upon a county agent in this territory, it is reported that eighty-three farmers of Dickinson county have requested assistance in tree-pruning from Mr. Arthur Lonsdorf, county agent there. Sixty-eight farmers have asked assistance in testing their land. This indicates an intention of seeding alfalfa if the tests prove favorable, it is believed. To save the time of the agent it is planned to arrange a centralized demonstration of tree-pruning.

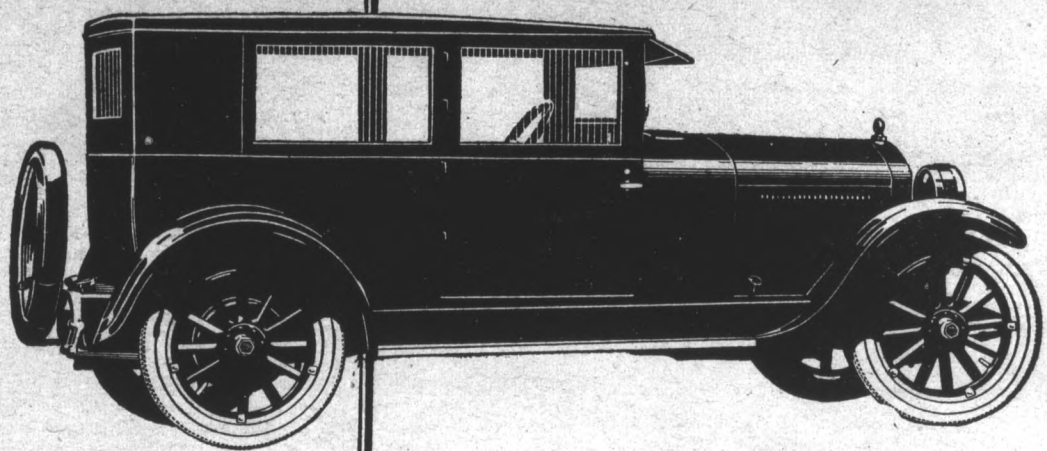
ADDRESSES BEING PUBLISHED.

THE papers presented at the recently held Tri-State Congress at Duluth, Minnesota, are being prepared for publication and will be ready for distribution from the Marquette office of the Upper Peninsula Development Bureau in May.

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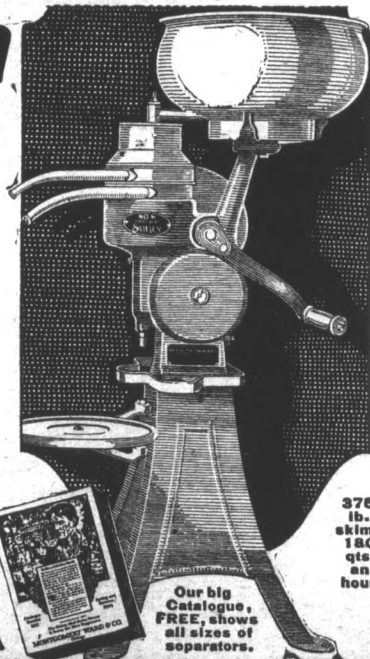
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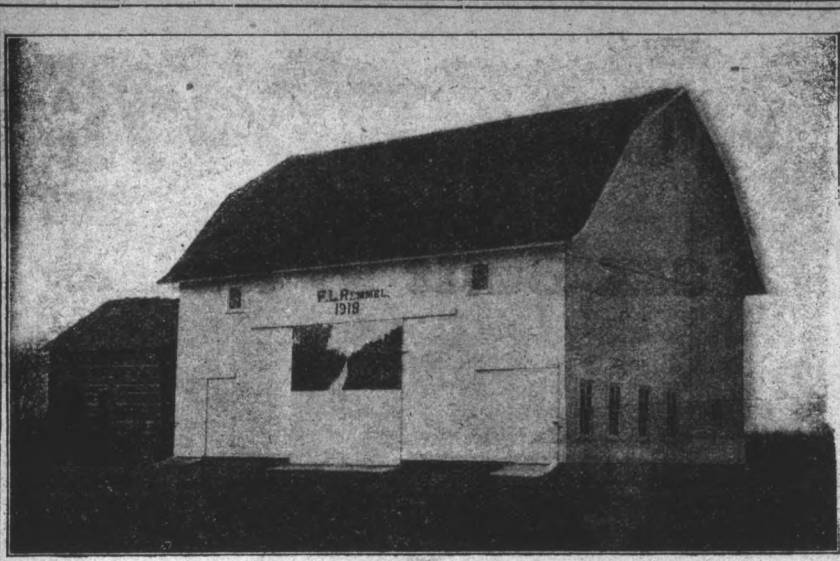
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#### BELIEVES IN SWEET CLOVER.

I HARVESTED four acres of sweet clover in 1923. It was the white blossom variety. It afforded excellent pasture last fall and the sweet clover hay is greatly relished by both cattle and horses.

One of my neighbors plowed a field of sweet clover under after harvesting one crop, and, during the following year, he raised a large crop of beans in the same field, because the sweet clover stubble apparently made good fertilizer.

Some farmers in this section cut a second crop last year and threshed it with a clover huller. In many cases the chaff was fed to animals for roughage.

Each year the acreage in Huron county is increasing, largely because farmers like the crop for summer pasture. This crop is also valuable to beekeepers, it making a very sweet white honey.—W. E. McMullen.

#### GIVES EXPERIENCES WITH ROLLING OATS.

ROLLING after early seeding has not proven so satisfactory as after late seeding, as much rain usually follows early seeding. If rain threatens at time of seeding it is best to wait until the ground dries after the rain before rolling. This depends on how soon the ground dries, as machinery should be kept off the field while the oats are coming through the ground.

Last year a twenty-acre field was rolled soon after the seeding. Heavy rains followed the rolling. Hot weather followed the rains. As the soil was rather heavy it baked and formed a hard thick crust on the top. This field, which under ordinary conditions would have yielded sixty bushels to the acre, yielded less than twenty bushels per acre. As the failure could be attributed to no other cause, it is believed the forming and cracking of the crust resulted in the loss of valuable moisture, which was needed later on, causing many of the oat plants to die. It is also believed that the unfavorable condition of the soil hindered germination, destroying some of the seed and causing an exceptionally light stand of grain.

In spite of one's caution a rain sometimes follows rolling. In such cases rolling the ground after the oats are up a few inches, or running through them with a weeder will break the crust and save moisture which would otherwise be lost. Fields that were rolled under proper conditions and were not followed closely by a heavy rain, showed a greater yield than fields which were not rolled, and the same fields showed a marked increase in yield over the preceding years when they were not rolled.

Rolling the oats after they have attained a considerable height is something new to us. Last year we had an opportunity to witness the results of such an operation. A light crust had formed on the top of the ground. We desired to try rolling the ground, but as the oats were quite high we hesitated to do so. Finally we ran over a small field with a culti-packer, after which the oats appeared sick; but in a few days they were standing up again. For the first few weeks it appeared that we had made a mistake; but later when the weather became dry these oats continued to grow, and attained a height of over four feet; and the yield was exceptionally good. Rolling the ground broke the crust, filled the cracks, thus conserving the

moisture which proved valuable during the dry spell.

A field that was partly plowed the fall before was completed last spring at a depth of five inches. The freshly plowed ground was rolled as soon as it became sufficiently dry. It was spring-toothed once then rolled cross-wise, spring-toothed again and sowed; the entire field was then rolled. There appeared to be no difference in the development of the crop. The quality of the grain appeared to be the same. The difference in the yield was not noticeable. The ground was plowed early as possible, and the spring rains aided in settling and packing it so that it would hold the moisture which is essential to rapid growth and proper development.—L. W. Silverthorn.

#### GROWS MIXED FEED.

FOR several years I have been sowing peas, oats and barley, using one bushel of each to the acre. I have found the crop good food for horses, cattle, hogs and sheep. I use a drill for sowing. So far I have not had a failure. I find, however, that the earliest sown crops are best.—Irving Carpenter.

#### ARE COUNTY AGENTS MAKING GOOD?

(Continued from page 605).

Eighteen calf club members were enlisted. A number of farmers were assisted in selling calves for club work in other counties. Orders for a number of carloads of dairy cattle were distributed to the breeders of Livingston county, which aided in boosting the number of dairy cattle sold from the county during the year to 107 carloads, besides the many hauled out by trucks and moved otherwise. The tuberculosis testing has been done twice and only about a week's additional work is necessary to place the county upon the accredited list.

In the other live stock departments, several activities were noted. Seven members were lined up for sheep clubs, ten for pig clubs, while three entered and finished the ton pig club projects. Work with poultry was more extensive, there being thirty-nine culling demonstrations conducted, eight breeding pens selected and mated with good cockerels, thirty-one cockerels placed and data cost on production of poultry completed on four farms.

The rural engineering program called for demonstrations with dynamite on the construction of sewage disposal systems. The report shows seven stone blasting and four stump blasting demonstrations and one septic tank construction advised on.

The addition of twenty members each to the sewing and canning clubs of the county resulted in just ten members being added to each.

A general summary of the twelve months' work shows 781 farms visited, 1,457 farmers calling at the office, 1,219 individual letters written, 23,327 circulars mailed, 294 articles written for local and farm papers, and 220 meetings held with an aggregate attendance of 6,926 persons.

Taking a general view of the program and of the work accomplished, it is evident that Mr. Bolander need, in no way, fear the application of the yardstick to his work. And other agents, there are, who can show most favorable records. All of which goes to show that some of our county agents, at least, are making good as determined by the cold-blooded business method of measuring only the visible results of their efforts.

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# Notes from a Michigan Farm

By L. B. Reber

IT does beat all how farmers' minds run in grooves. In my capacity as salesman for a local nursery, I come in contact with hundreds of farmers every fall. Last year every last one of them wanted grape plants, although there were thousands of acres set the year before. This year every last farmer wants peach trees. I have sold thousands of peach trees but only a few dozen apple trees and no pears. Pears are anathema to fruit farmers around here. I know of a number of pear orchards which are coming out. One nearby farmer is picking his apple trees with a cross-cut saw. A few years ago Duchess apples sold big and every body set out Duchess trees, now they are reaping the harvest in a surplus of Duchess apples which do not pay enough to pay for the picking, and out come the Duchess.

It is a puzzle to know what to set. For myself I shall go rather heavily into quinces and then probably kick myself in a few years. However, no one is setting quinces so this is the time to go into them. Personally, one quince would last me a year, but some people must like them as they sell well.

Don't it beat all how the town men just love to beat a farmer. They take a fiendish delight in seeing us coming. Our local business men had a special dollar day sale. I bit as usual. I bought a pair of overalls for ninety-eight cents which were actually worth twenty-five cents. The first time they were washed they shrunk until they fit me like a ballet dancer's tights. When a neighbor's wife comes I sneak to the barn as I am bashful about exposing my manly form in those overalls. I also bought a suit of underwear, size forty-six, for a dollar. I wear a forty-four but wanted to be safe. I should have taken a size ninety-six for the measly things shrunk until they fit me like my original Adam suit. The sleeves just come to my elbows and are tight as original sin. No wonder my arms ache when grubbing out gooseberries. When they are washed once more I shall present them to my six-year-old boy and they will just fit him. Once more I am saying never again on those bargains.

The disagreement over various crops mixing, which has featured late numbers of our paper, makes me laugh. You see, I once was guilty of teaching agricultural science in a vocational high school and believe me, gentlemen, I sure knew it all. I poked fun at the wise old farmers who asserted that vine crops would mix, I had had at feeders who knew that white corn did not have the feed value of yellow corn, and I made a special target of people who planted their crops by the phases of the moon. Then I bought a farm of my own and proceeded to put all my wisdom into action. The very first year I learned one big fact; that was that as a wise farmer, I was the first prize bonehead. For pure, unadulterated boneheadedness I took the purple ribbon without question.

You see, I knew that muskmelons would not mix with cucumbers. The book said so, so I planted them cheek by jowl. The result was a job lot of tasteless melons, the poorest I ever ate. I knew that pumpkins and squash couldn't mix, so I planted them in the same row. My squashes rotted almost as soon as they saw the cellar. I was going to show the mossbacks some real corn so I sent away for seed which would make a hundred bushels to the acre. Maybe it would have done so if the winter had held off for three months longer. I pooh poohed the idea of planting by the moon, and loudly asserted that beans should be planted early enough to make a crop before the late dry spell. Results, I

harvested the finest crop of bean bugs ever seen in this section. My beans literally walked out of the bag and potatoes had wonderful tops and would have furnished a marble factory with fine models.

Of course, vine crops will not mix; the books say so, and if you don't believe it, come over, for I still have the books. But believe me, folks, I plant my melons as far from the pickle patch as the garden will afford. Corn won't mix either, but I spoiled my wife's popcorn patch by planting sweet corn too near it. I have come to one conclusion, and that is that we place altogether too much reliance upon books and bulletins. They were written by mere men and I have yet to find a man who knows it all, although I have met many who thought they did. A bred-in-the-bone farmer has profited by generations of forbears plus a life time experience, and I, for one, have learned to use his cumulative wisdom and prefer it to all the books ever written. Whenever I again reach the point where I know all there is to know about farming, I am going to hurry to the water trough and soak my head until the swelling disappears.

It is serious how farm emergencies seem to take care of themselves. Apparently there was to be a great scarcity of cedar posts, when presto, we all began to set steel posts in our vineyards. Just as good wagon timber became scarce, the tractor and truck came along. No doubt other emergencies, such as lumber shortage, will be taken care of in good time. Anyway, the farm is no place for a pessimist.

## SPRAY FROM THE GROUND.

IT is extremely difficult to control aphids on fruit trees by spraying unless a systematic method is followed in spraying each tree. It was found that when spraying was done from the top of the spray tank the results were quite uncertain, due to the fact that the insects congregated on the lower branches of the trees where the spray mixture failed to reach them. At the same time in orchards in which the spraying was done from the ground and under the trees, practically completely covered in a short time.

In this method, the spray outfit is equipped with a sufficient length of hose to enable the nozzleman to work from the ground and under the tree. He then takes up certain designated positions in spraying each tree which insure the spray mixture reaching the underside of every branch and twig. By moving from place to place, and by maintaining a pressure of at least 200 pounds at the spray tank, it is claimed that each tree can be completely controlled was accomplished.

## WHAT MAKES FOR QUALITY?

GROWING vegetables and growing quality vegetables is two different things. There are some things that make for quality but add little to the cost or the labor. Very rich soil that is sandy and mellow to start with is important, but if the soil is not so good, feeding can remedy that somewhat. Nitrate of soda early to give a good start, and bonemeal later is the ideal program, with top-dressings of rotted stable manure if obtainable. Cultivation after every rain to keep the soil moisture from escaping is another point. Rich soil and good culture will give quality. Radishes will be more tender, lettuce more crisp, beans with less stringiness, peas will set better and pods be better filled, corn ears will be full and sweeter, and in addition to the better quality the crop will be much larger. Plan the garden for quality.—Agnes Hilco.

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# The Battle of the Bottle

Our Weekly Sermon—By N. A. McCune

TIME was, when the temperance lessons in Sunday School were not strong for them. Yet they did a vast amount of good, and laid a foundation that stood up under the pressure of prohibition legislation. But now there is not much excuse for dryness and deadness on the subject of prohibition. The subject is too moist to be dry and too lively to be dead. There is agitation, declamation, vociferation, fulmination, almost any day. And prohibition is going to win. There is no shadow of doubt as to that. The only reason why such powerful forces are trying to flood the country with wine and beer is the money that is to be made out of it. The profits are enormous, hence the clamor is loud.

Here is a quotation or two from a message of Governor Coolidge to the Massachusetts legislature, May 6, 1920, vetoing a 2.75 per cent beer bill.



"There is little satisfaction in attempting to deceive the people. If this act were placed on the statute books of this Commonwealth today it would provide no beer for the people. No one would dare act upon it, or if anyone did he would certainly be charged with crime. Similar laws in other states are to date ineffective. I am opposed to the practice of a legislative deception." "When I took office I gave an oath to support the Constitution of the United States. That Constitution and the laws of congress are declared to be the supreme law of the land. My oath was not to make a chance on the Constitution. It was to support it. We have had too much legislation by clamor, by tumult, by pressure. The authority of the law is questioned in these days all too much. The binding obligation of obedience against personal desire is denied in many quarters. If these doctrines prevail, all organized government, all liberty, all security are at an end. Force alone will prevail. Can those entrusted with the gravest authority set any example save that of the sternest obedience to law?" The above consists of sentences chosen here and there from Mr. Coolidge's message to the legislature. If all officers of the law were as quick and clear to speak out, law enforcement would be vastly simplified.

had been drunk on board ship. He had gone ashore to a dinner and had made an exhibition of himself and brought disgrace on the service. He had been tried by court-martial and convicted and sentenced to dishonorable dismissal from the navy. I said to the gentleman, 'I cannot change the order. I cannot permit men to disgrace the service that way and remain in it.' And then this man, an old Quaker, said to me: "Sir, this boy is a product of the navy and you have made him what he is, and now you throw him out in disgrace!" And he gave a very deserved and severe lecture upon a service that would make it possible and easy for young men to go into temptation and into drink, and then, when they have fallen, disgrace them for life. It impressed me very much. He explained, 'When this boy's father died he came into my family to live as my own son. We never had a drop of wine, even, on our table. We are strictly temperate in our home, and the boy never tasted a drop of liquor until he went to Annapolis, nor until after he graduated, and then went aboard ship and every dinner there was the wine mess and there was a feeling in the navy that if a man did not take his glass he was not exactly a good fellow, and they nearly all did it, and this boy, following the custom, learned the taste of it and he liked it; and now he's ruined, and the navy is responsible for the ruin of that boy, and I charge it up to you!' And I made up my mind at once that I would issue the order. And that's the reason the order went through!"

Mr. Daniels added that the prohibition order was made for efficiency and democracy. Under the old regime the officers were permitted to drink, but not the men, and this was thoroughly undemocratic and unjust. If drink is good for the officers it is good for the men. The papers used to make merry over Joe Daniels and his white socks, but Joe Daniels had the nerve to do what no previous secretary of the navy had ever done.

THE lesson of this week makes a brief study of the two prophets, Amos and Hosea. Amos was a live stock man and fruit grower. He must have been poor. He says that he raised sycamore fruit, and that he went about and pinched the fruit when it was green so it would ripen faster. In other words he raised "pinched figs." He was not a prophet, he says, nor the son of one. But he used his powers of observation. He saw the evil all around him, and especially he observed it in the northern kingdom where he had very likely gone on business. There was injustice in the courts, the poor were oppressed, the shame of religion lay in the idolatry that was practiced in the temples. There at Bethel, far from his own home town of Tekoa, he spoke publicly and denounced the evils of the time. He has a piercing quality in his language, which has not lost its edge through the passing centuries. He did not hesitate to include the king in his denunciations. Of course, his preaching was not enjoyed. The chief priest at Bethel advised him to pack up his things and go home. When Amos refused, Amaziah tried force. But Amos stayed until his message was delivered. All his allusions are drawn from rural life. His book is short but full of thunder and lightning.

SUNDAY SCHOOL LESSON FOR APRIL 27.

SUBJECT:—Amos and Hosea pleading for righteousness.  
GOLDEN TEXT:—Hate the evil, love the good. Amos 5:15.

A WET hero in New York last summer organized thirty thousand men and boys into a Fourth of July Parade of Protest against the prohibition law. He marshaled the boys, and that was a stroke of real business, because without them there is no hope for the drinker of tomorrow. In Kansas such a parade would have been impossible, as several generations have grown up there, who have never seen a saloon. Of course, the liquor forces have no expectation of getting the eighteenth amendment repealed. They know it cannot be done. But by getting a modification of the law which will permit the sale of wine and beer, they hope to enter a wedge which will spit the prohibition law. It sounds very simple and innocent. But we forget that much of the worst effects of liquor drinking is not from whiskey, but from beer. What it amounts to is, the break-down of prohibition, and a defiance of the expressed will of the people.

Secretary Daniels told in 1919 why he issued the order making the United States navy dry. "One day there came a man into my office and he said, 'I want to talk with you about my nephew. You have expelled him from the navy in disgrace and I wish to appeal to you to reinstate him.' His nephew



# WORLD EVENTS IN PICTURES



Cleveland traffic cops are trying out new signal system for rush at Republican Convention.



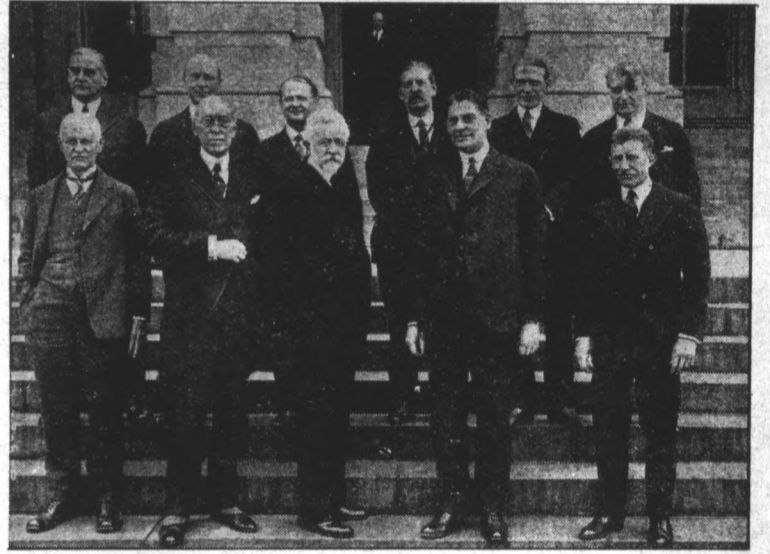
Frame buildings were whipped to kindling in a tornado which recently swept Shawnee, Oklahoma. Between 150 and 200 homes were wrecked and 7 persons killed.



U. S. Secretary of Treasury, Andrew Mellon, and his children are vacationing in Virginia.



This is the new all-star infield combination of the Philadelphia Baseball Team which the manager, Connie Mack, hopes will develop into another "million dollar infield."



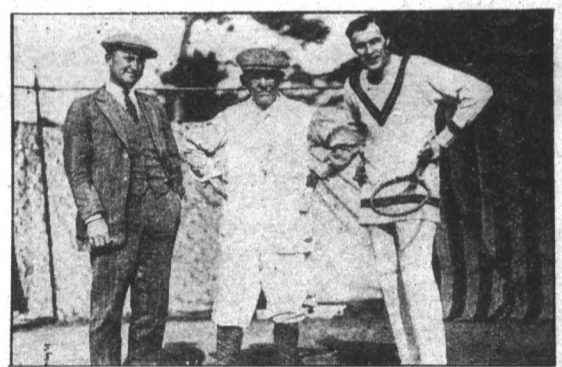
The new Secretary of Navy, Wilbur, recently met with the full membership of the Senate Committee on naval affairs. Secretary Wilbur is fourth from the left on the front row.



Ira Hoyt, head of the Passport Bureau in New York Custom House, proclaims the coming of spring by the rush for foreign passports.



Mrs. Nettie Clapp is chairman of Committee of Women for G. O. P. National Convention in Cleveland.



Three great hitters, Ty Cobb in baseball, W. J. Travis, golfer, and William Tilden, II, tennis champion.



The committee on arrangements for the Republican National Convention met in Cleveland Auditorium to make plans for changes in the hall for the Convention.



These ladies are interested in politics, they are the members of the League of Woman Voters, discussing the plans for the G. O. P. National Convention.



ENGINE after engine answered, in jeering sarcastic tones, the beligerent cries of men, driving down by sheer will-power the primitive desires of self-preservation. Again was the call repeated. Again was it answered by men who snarled, men who cursed that they might not pray. And with it:

"A-w-w-w—right! Let 'er go!"

The whistles screamed. Up the grade, four engines to a plow, the jets of steam shrilling upward, coughing columns of smoke leaping blackly up the mountain side, the start was made, as the great roaring mass of machinery gathered speed for the impact.

A jarring crash that all but threw the men of the first crews from their feet, and the Death Trail had been met. Then churing, snarling, roaring, the snow flying in cloud-like masses past them, the first plow bit its way deep into the tremendous mass, while sweating men, Barry Houston among them, crammed coal into the open, angry fire boxes, the sand streamed on greasy tracks,—and the cavalcade went on.

A hundred yards, the beams knocking down the snow above and all but covering the engines which forced their way through, only to leave as high a mass behind; while the whole mountain seemed to tremble; while the peaks above sent back roar for roar, and grim, determined men pulled harder than ever at the throttles and waited—for the breath of night again, or the crash of the avalanche.

A shout from Old Andy. A pull at the whistle, screeching forth its note of victory. From in front was it answered, then from the rear, and on and on, seemingly through an interminable distance, as moonlit night came, as the lesser plows in the rear swept their way clear of the Death Trail and ground onward and upward. But only for a moment. Then, the blare of the whistles was drowned in a greater sound, a roar that reverberated through the hills like the bellow of a thousand thunders, the cracking and crashing of trees, the splintering of great rocks as the snows of the granite spires above the Death Trail loosed at last and crashed downward in an all-consuming rush of destruction. Trees gave way before the constantly gathering mass of white, and joined in the downfall. Great boulders, abutting rocks, slides of shale! On it went, thundering toward the valley and gleaming lake, at last to crash there; to send the ten-foot thickness of ice splintering like broken glass; to pyramid, to spray the whole nether world with ice and snow and scattering rock; then to settle, a jumbled conglomerate mass of destructiveness, robbed of its prey.

And the men shouted, and screamed and beat at one another in their frenzy of happiness, in spite of the fact that the track had been torn away from behind them as though it never had existed, and that they now were cut off entirely from the rest of the world. Only one snowshed remained, with but a feeble bulwark of drifts

# The White Desert

By Courtney Ryley Cooper

before it. Already lights were gleaming down the back-stretch, engines were puffing upward, bearing ties and rails and ballast and abutment materials, on toward the expected, with men ready to repair the damage as soon as it was done. There were cries also from there below, the shouts of men who were glad even as the crews of the engines and plows were glad, and the engineers and firemen leaned from their cabs to answer.

Still the whistles screamed; all

as they snored, laughed with the subconscious knowledge of success, while the bunk cars which sheltered them moved onward, up to the peak, then started down the range. Night again—and Houston once more in the engine cab. But this time, the red glare of the fire-box did not show as often against the sky; the stops were less frequent for the ice packs; once the men even sang!

Morning of the second day—and again the sunshine, causing dripping

## SPRING FEVER

By Al Rice

O, the honey bees are hummin'  
And I hear the "rub-a-dub"  
Of the "yeller-hammer" drummin'  
On the dry limb of a stub.  
Lots o' jobs fer me t' do;—  
Fixin' gates and fences, too—  
Am I lazy? So are you!  
I'm as tired ez kin be;  
Fer, I guess, th' Ol' Spring-Fever's  
Into me.

O' it's got a way o' gittin'  
The ambition uv a man,  
So y'ud ruther be a-sittin'  
When th' April breezes fan.  
Jes' t' set around an' dream  
On a log beside a stream,  
Beats th' drivin' uv a team—  
Holdin' plows among th' stones,  
When th' Ol' Spring-Fever's gittin'  
In yer bones.

O, I've got a torpid liver,  
That's the worst ye ever seen,  
And I'm like a busted flivver  
That is out uv gasolene;  
Fer I ain't a-feelin' perk,  
An' I'd ruther loaf n' work—  
I'm ez shiftless ez a Turk,  
Er a cow that's lost her cud;  
Fer th' bloomin, Ol' Spring-Fever's  
In th' blood.

O, th' maple sap is runnin'  
An' th' sun is over-head,  
An' th' chipmunk lays a-sunnin'  
'Mong th' sumac, green an' red.  
Fer th' jobs, that are in sight,  
I ain't got no appetite;  
Fer I ain't a-feelin' right.  
I ain't lazy! No, Sir-ee!  
But th' bloomin' Ol' Spring-Fever's  
Into me.

through the night they screamed, as drift after drift yielded, as the eight-foot bite of the first giant auger gnawed and tore at the packed contents of the last shed atop Crestline; then roared and sang, while the hills sent back their outbursts with echoes that rolled, one into another, until at last the whole world was one terrific outpouring of explosive sounds and shrill, shrieking blasts, as though the mountains were bellowing their anger, their remonstrance at defeat. Eight feet, then eight feet more; steadily eight feet onward. Nor did the men curse at the sulphur fumes, nor rail at the steel-blue ice. It was the final fight; on the downgrade were lesser drifts, puny in comparison to what they had gone through, simple, easily defeated obstacles to the giant machinery, which would then work with gravity instead of against it. Eight feet more—eight feet after that; they marked it off on the windows of the engine cabs with greasy fingers and counted the hours until success. Night faded. Dawn came and then—the sun! Clear and brilliant with the promise of spring again and of melting snows. The fight was the same as over.

Sleep—and men who laughed, even

streams from the long, laden branches of the pines and spruce, filling the streams bank-full, here and there cutting through the blanket of white to the dun-brown earth again. Work over, Houston leaned out the door of the bunk car, drinking in the sunshine, warm for the first time in weeks, it seemed—and warm in heart and spirit. If she would only keep her promise! If she would allow Medaine to see her! If she would tell the truth about the contract, the lease, and most of all that accusation. If—

The whistles again—and crowded forms at the doors of the cars. Tabernacle was in the distance, while men and women waded through the soggy snows to be the first to reach the train. Happiness gleamed on the features of the inhabitants of a beleaguered land shut away from the world for weeks, men and women who saw no shame in the tears which streamed down their cheeks, and who sought not to hide them. Eagerly Barry searched the thronging crowd, at last to catch sight of a gigantic figure, his wolf-dog beside him. He leaped from the car even before it had ceased to move.

"Ba'tiste!" he called. "Ba'tiste!"

Great arms opened wide. A sob same from the throat of a giant.

"Mon Baree! Mon Baree!" It was all he could say for a moment. Then, "Mon Baree, he have come back to Ba'teese. Ah, Golemar! Mon Baree, he have come back, he have come back!"

"We've won, Ba'tiste! The line's open—they'll be running trains through before night. And if she keeps her promise—"

"She?" Ba'tiste stared down at him. They had drawn away from the rest of the excited, noisy throng. "She? You mean—"

"Agnes. You've been taking care of her, haven't you? I found her—she promised that she would tell the truth for me when I got back, that she would explain the lease and contract and tell Medaine that it was all a lie. She—"

But Ba'tiste Renaud shook his head. "No, Baree. Eet is the too late. I have jus'come—from there. I have close her eyes."

### CHAPTER XXIV.

DEAD! Houston saw Medaine Rob-inette pass in the distance, and his eyes followed her until she had rounded the curve by the dead aspens—the eyes of lost hope. For it was upon life that he had planned and dreamed; that the women of the lopely cabin would stand by her promise made in a time of stress and right at least some of the wrongs which had been his burden. But now—

"She—she didn't tell you anything before she went?"

Ba'tiste shook his head.

"She would not speak to me. Nothing would she tell me. At first I go alone—then yesterday, when the snow, he pack, I take Golemar. Then she is unconscious. All day and night I stay beside the bed, but she do not open her eye. Then, with the morning, she sigh, and peuff! She is gone."

"Without a word." It spelled blackness for Houston where there had been light. "I—I—suppose you've taken charge of everything."

"Oui! But I have look at nothing—if that is what you mean."

"No—I just had something here that you ought to have," Houston fumbled in his pockets. "She would want it around her neck, I feel sure, when she is—"

But the sudden glare in Ba'tiste's eyes stopped him as he brought forth the crucifix and its tangled chain. The giant's hands raised. His big lips twisted. A lunge and he had come forward, savage, almost beast-like.

"You!" He bellowed. "Where you get that? Hear me, where you get that?"

"From her. She—"

"Then come! Come—quick with me!" He almost dragged the younger man away, hurrying him toward the sled and its broad-backed old horses. "We must go to the cabin, oui—yes! Hurry—" Houston saw that he was trembling. "Eet is the thing I look for—the thing I look for!"

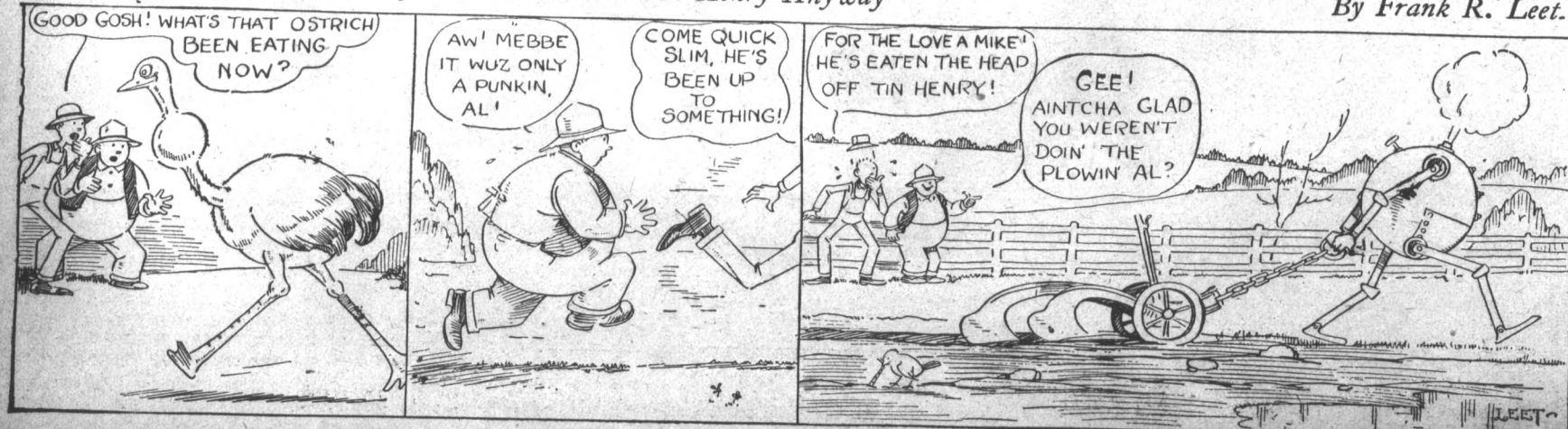
"Ba'tiste! What do you mean?"

"My Julienne," came horsely. "Eet is my Julienne's!"

Already they were in the sled, the wolf-dog perched between them, and

### AL CRES--A Head Is Merely An Ornament to Tin Henry Anyway

By Frank R. Leet.





hurry along the mushy road, which followed the lesser raises of snow, taking advantage of every windbreak and avoiding the greater drifts of the highway itself. Two miles they went, the horses urged to their greatest speed. Then, with a leap, Ba'tiste cleared the runners and motioned to the man behind him.

"Come with me! Golemar! You shall stay behind. You shall fall in the drift—" The old man was talking excitedly, almost childishly. "No? Then come—Eet is your own self that must be careful. Ba'teese, he cannot watch you. Come!"

At a run, he went forward, to thread his way through the pines, to flounder where the snow had not melted, to go waist-deep at times, but still to rush onward at a speed which taxed even Houston's younger strength to keep him in sight. The wolf-dog buried itself in the snow. Houston pulling it forth time after time, and lugging it at long intervals. Then at last came the little clearing—and the cabin. Ba'tiste already was within.

Houston avoided the figure on the bed as he entered and dropped beside the older man, already dragging forth the drawers of the bureau and pawing excitedly among the trinkets there. He gasped and pulled forth a string of beans, holding them trembling to the light, and veering from his jumbled English to a stream of French. Then a watch, a ring, and a locket with a curly strand of baby hair. The giant sobbed.

"My Pierre—eet was my Pierre!" "What's that?" Houston had raised suddenly, was staring in the direction of an old commode in the corner. At the door the wolf-dog sniffed and snarled. Ba'tiste, bending among the

lost trinkets that once had been his wife's, did not hear. Houston grasped him by the shoulder and shook him excitedly.

"Ba'tiste! Ba'tiste! There's some one hiding—over there in the corner. I heard sounds—look at Golemar!"

"Hiding? No. There is no one here—no one but Ba'tiste and his memories. No one—"

"I tell you I heard some one. The commode moved. I know!"

He rose, only to suddenly veer and flatten himself against the wall. The yellow blaze of aimless revolver fire had spurted from the corner; then the plunging form of a gnarled, gangling, limping man, who rushed past Houston to the door, swerved there, and once more raised the revolver. But he did not fire.

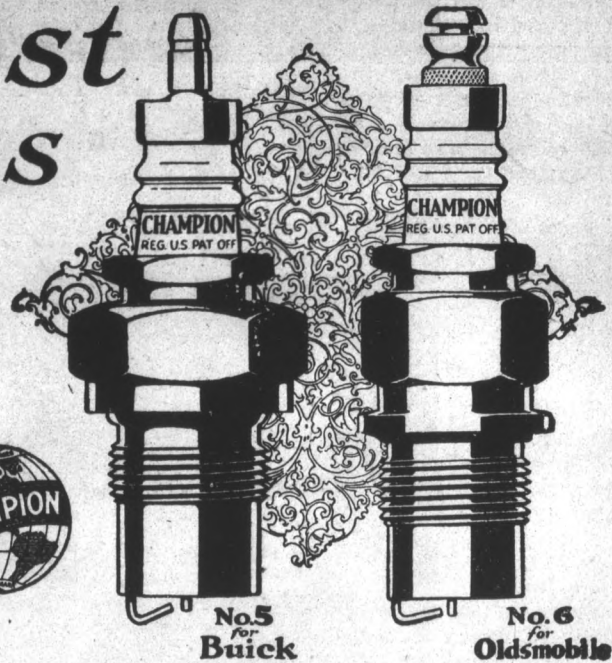
A furry, snarling thing had leaped at him, knocking the revolver from his hand in its plunging ascent. Then a cry—a gurgling growl. Teeth had clenched at the throat of the man; together they rolled through the door to the snow without, Golemar, his hold broken by the fall, striving again for the death clutch, the man screaming in sudden frantic fear.

"Take him off!" The voice of the thin-visaged Fred Thayer was shrill now. "Take him off—I'll tell you about it—she did it! Take him off!"

"Golemar!" Ba'tiste had appeared in the doorway. Below the dog whirled in obedience to his command and edged back, teeth still bared, eyes vigilant, waiting for the first movement of the man on the ground. Houston went forward and stood peering down at the frightened, huddled form of Thayer, wiping the blood from the fang wound in his neck.

(Continued next week)

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Doings In Woodland

Mischief in the Peach Tree

SCHOOL was out and Jackie Rabbit and Sandy Squirrel, who had been playmates ever since they could remember, took each other by the hand, grabbed up their dinner pail and books and went skipping toward home.

But it was their habit to always play along the way for a while instead of going straight home, and both had received several scoldings and even a few spankings for it from their mothers.

This afternoon after school, they seemed to forget all about those spankings, as they came along past the or-

chard to give in that Sandy could climb trees faster than he could. As Jackie was sitting on a bough resting, he happened to nibble a little bud that was on a branch right before his nose. My! how good it tasted.

"Yum, yum," said Jackie. "Just try one of those little bunches, Sandy. My, but they are good." Sandy nibbled one, too, and he liked it just as well as Jackie did. Now, Jackie and Sandy were always hungry when school was out, so they were soon busy nibbling the new little buds on Rolly Rabbit's prize peach tree.

It was not long before Rolly Rabbit spied them from his window and thinking they were up to some mischief, hurried out.

"Sandy, Jackie, whatever are you doing?" he called.

"Oh, Uncle Rolly, these little bunches taste so good," said Jackie.

"Just as good as hickory nuts," said Sandy, "and I haven't had any of them in a long time. Just try one."

"You naughty boys, come right out of that tree," scolded Rolly.

When they were down, he continued, "Don't you know that in the place of every one of those little tiny buds which you ate there would have been a nice big juicy peach this summer? You have spoiled most of my prize peaches."

"Oh, I didn't know we were harming the tree. I like peaches lots better than those buds. Oh, Uncle Rolly, I am so sorry," said Jackie.

"And I am too, Mr. Rolly Rabbit," said Sandy with a very sad look on his face.

"All right, boys, if you see to it that you never, never harm any more little buds, I won't give you a spanking this time. But skip home as fast as you can go, for it is late already." And off they skipped.



"Just Try One, Sandy," said Jackie. chard of Rolly Rabbit, who was Jackie's uncle.

"I'll bet you can't climb that tree over there in the orchard as quickly as I can, Jackie," dared Sandy.

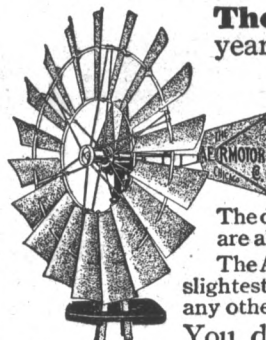
"You are spry, Sandy," said Jackie, "but I think I can beat you just the same. Let's try."

Soon they were scrambling over the fence into Rolly Rabbit's nice young orchard.

"One, two, three, go," said Sandy, and up the tree they both scrambled, but Sandy was dancing on the topmost branch before Jackie was even to the first branch.

They tried it again and Sandy Squirrel won the second time, so Jackie had

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The double gears run in oil in a tightly enclosed gear case. They are always flooded with oil and are protected from dust and sleet.

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FOR SALE 40 acres, 24 acres Concord grapes, good buildings, no better vineyard in Michigan, trout stream, \$1,950.00 cash, balance half of grape crop. Would consider a trade on city property. E. H., Lawton, Mich., R. 3.

FOR SALE—4 acres, also 71 acres near South Lyon, Mich. Box 136. No agents.

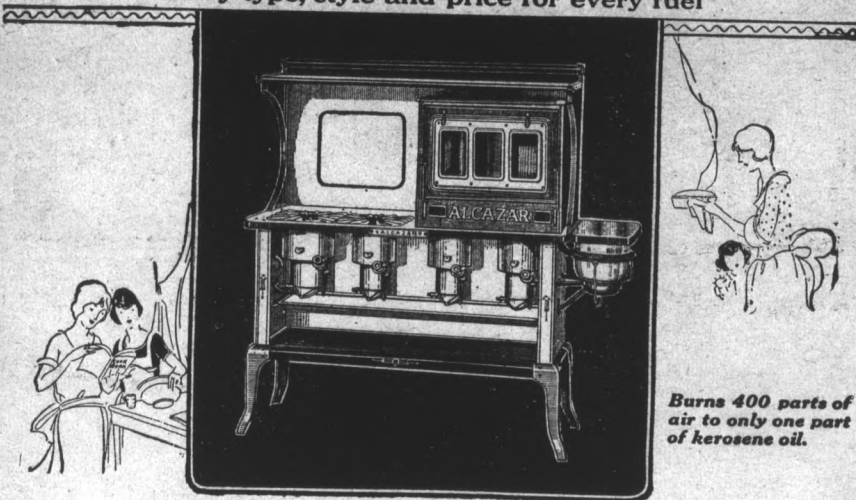
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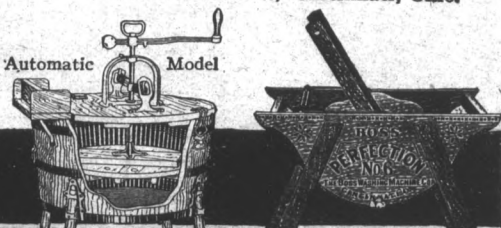
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## Woman's Interests

### Don't Forget the Gift Garden

By Nelle Portrey

It may seem a little like "rushing the season" to be thinking of Christmas gifts and giving now, but next winter this fore-thought will be appreciated. And, too, there are other special reasons and dates when gifts and remembrances seem to be in order, birthdays and "showers" when the busy housewife may be sorely puzzled for something appropriate and suitable to give. It is not the gift that shows the greatest outlay of money that is appreciated the most, but those that show the careful thought and care of a loving friend.

The gift I appreciated more than any other last Christmas was a delightful bouquet of "everlastings." They were arranged with ornamental grasses, and were an exceptionally welcome bit of color in our living-room. This little box of brightness was sent half-way across the continent.

Geranium and coleus seeds planted late this spring, and well cared for, will make charming potted plants for this winter. One summer on the old homestead Mother bought a package of coleus seeds, and that Christmas she had thirty-three potted plants—all different—to distribute among her neighbors as Christmas remembrances.

Coleus seeds are very fine, so Mother mixed them with dry earth, and sifted them out of a salt shaker, so that they might be evenly distributed. They were planted, indoors, in shallow pans. Until the little seedlings peeped through they were watered by spreading a flannel cloth over the soil and sprinkling the water on this, so that the tiny seeds would not be washed out.

Most flower lovers will appreciate a little collection of flower seeds that have been grown in the flower garden of a friend. These may be from favorite, quick-growing annuals, and may be put in tiny envelopes, with the names of the flowers, as well as directions for growing—if they are needed—on the outside.

Most bulbs multiply very rapidly, and a small box of these products will always make very acceptable gifts.

Dahlia and canna tubers are also desirable. Gladiolus, monbretias and jonquils are suitable, as well as many other bulbs.

But while flowers, seeds and bulbs are all unexcelled, they are only a small part of the garden products that may be utilized for gift purposes. A collection of common garden herbs, to be used in seasoning, should prove very acceptable as a gift for a bride. Most of these are perennials, and are all easily grown. Such a collection may consist of sage, sweet marjoram, summer savory, anise, and thyme. Two sage plants in our garden have for years provided two families with all the sage they can use, as well as several of the neighbors, and many little gift packages have been made up from the surplus.

A basket of any sort of winter vegetables, such as cabbage, sweet potatoes, pumpkins, or a big squash, is sure to be appreciated by a city friend.

A bunch of sweet lavender may be fixed as elaborately or as simple as one chooses. It may be fixed into a dainty sachet for milady's dresser drawer, or it may merely be tied with a ribbon.

#### START THE CANNAS EARLY.

CANNAS planted in the open ground early in the spring are uncertain in their starting. It is more satisfactory to pot the bulbs in two or three-inch pots and give them a start. Just room enough to pack a little soil around the bulb will suffice. Water well and set in a warm place and keep moist all the time. It is a good plan to set the pots on a box of sand that is kept wet and this will prevent rapid drying. You can sink the pots in the sand if you like, but you must move often or the roots will run through into the sand and not root well in the pot, resulting in destroying most of the roots when setting out.—A. Hilco.

Sick of the same old pictures? Measure the frames, and soon you'll find some prints you like which will fit.

### Avoid the Topsy-Turvy Disposition

It makes little difference to us grown-ups, whose habits are already well formed, if our daily routine is considerably altered. We may sit up half the night to finish a job or go without lunch for a week if it doesn't suit our convenience to appease our appetite at the proper time and suffer but little from the consequences.

But with the growing child it is tremendously different. Every parent who has a child in their training should deem it their duty to see that the child lives a well planned daily schedule.

An orderly habit of living strongly influences the child's disposition, health and mental development. Child nature is so impressionable and easily irritated that a helter-skelter method of living will form habits that will cling to him through life. The disorderly play-room, hat and coat thrown on the floor, and scattered picture books will lead the child to forget the value of order.

Physicians tell us we cannot stress too strongly the regularity of eating with children. The growing child requires a lunch between the three meals each day, but they should be given to him with regularity.

Late hours and lack of sleep means a dull and ill-tempered child the following day. To develop the growing body, a goodly amount of healthy sleep is required. The parent's social duties should not be permitted to interfere with the bed-time hour, for a few hours' sleep lost will rob the child of considerable health-building qualities beside abetting to produce a tired, nervous and irritable child.

This holding to a daily schedule is a long and difficult job that requires much thought and considerable planning. But even though you seem to make little impression, you have planted standards that are sure to grow and develop. The boy who appears to have very little idea of order will be proud of the fact that fifteen years hence he knows a tidy dresser-draw from a topsy-turvy one.

With a curious feeling, the young married woman will find herself doing things as she remembered her mother doing them when she was a child, but to which she paid little attention.



# What I Have Discovered

**T**HAT the spirit of Columbus lives again, I am sure, for there were so many discoveries sent in for our "Discovery Contest" this week. I want to thank the readers for their generous response at this busy season of the year. The prize winning discoveries follow here and many of the others will be printed in later issues.—Martha Cole.

To churn quickly, add a piece of alum as large as a bean, dissolved in hot water, to the cream. I add it just before putting the cream into the churn. This amount of alum is sufficient for two gallons of cream. My butter brings more than the market price, which proves there is no undesirable taste, and it reduces my churning periods from one and a half hours to ten to thirty minutes.

To clean aluminum, let it lay for one hour in the water in which potatoes have been boiled.—Mrs. L. F., Levering, Mich.

Of necessity, I have had to use hard water for washing, this winter. In rinsing clothes in hard water, the blueing often streaks. I have found that by adding one cupful of milk to two-thirds of a tubful of water, before putting in the blueing, that I have no streaks when the clothes are dry.—Mrs. L. M. B., Howell, Mich.

When funds were scarce at house-cleaning time and I needed to have some decorating done, I decided to make my own kalsomine. In a twelve-quart pail I put about three quarts of lime, adding enough dry paint or powdered paint to make the tint I wanted. To this I added boiling water to the consistency of paper paste and about one-half quart of rye flour, with a handful of salt. Beat well that the color may be thoroughly mixed. Use just the same as kalsomine.

Rye flour makes better paste for paper than wheat flour.—Mrs. P. M. D., Rose City, Mich.

Rubber buggy cloth or curtain cloth makes inexpensive water-proof aprons; the edges need not be found.

I use soft water instead of hard water in coldpack canning and there is no lime left on the cans.

One-half teaspoon of cream tartar with one teaspoon of lemon extract added to cream pie makes a fine mock-lemon pie.

One-third teaspoon of cream of tartar or baking powder added to boiled frosting makes it white and fluffy and keeps it from cracking.—Mrs. S. R. V., Montgomery, Mich.

When making starch, add a small piece of soap to the water and your irons will not stick and the clothes will be glossy and smooth.

Unightly stains on cups may be removed by rubbing with damp salt.

To save the tablecloths, especially where there are children, cut the old ones into small cloths 12x20 inches. Hem these and place them at each place as you set the table. They are easily removed and the tablecloth is spotless.—Mrs. E. E. M., Kalamazoo, Mich.

## A FIREPLACE OR NOT.

**I** HAVE had my heart set on having a fireplace for some time. We have a very nice place for one in our dining-room.

Our house is heated by a furnace, but there are cold days in spring and fall when one wants a little heat in the dining-room and does not care to start a fire in the furnace.

Some of my friends have been try-

### A Fireplace or Not

**T**HE writer of the above letter is in somewhat of a quandary what to do about a fireplace. I think the subject will make an excellent one for our contest this week. Just read it through and then write your experiences with, and opinions of, the fireplace.

The two best letters will receive the three-piece kitchen knife sets, and the next three the two-piece kitchen knife sets.

Address your letters to Martha Cole, Michigan Farmer, Detroit, Michigan, before May 1.

ing to discourage me about having one put in, saying they do not give out any heat and are drafty and blow ashes all over the room.

I never lived in a house where there was a fireplace, so I would like to hear from some of the farmers' wives who have them in their own homes.

You will understand that I would not expect the fireplace to heat the room in winter as we have a hot air register from the furnace to do that.

Is the difference of opinion due to differences in the fireplaces?

I shall be glad to hear from some who know, and perhaps it might prove interesting to others as well.—M. E. H., Charlevoix, Mich.



No Odor—No Wicks

No Noise—No Smoke

## Remarkable oil range converts kerosene into gas

Bakes, roasts and cooks with a clear, blue flame that doesn't smoke, smell nor smart the eyes

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We urge you to see Vapo before you buy any oil range.

### Wickless, chimneyless and amazingly clean

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32 to 36 hours heat from 1 gal. kerosene

Turned up to the correct intense, blue flame the Vapo burner operates 32 to 36 hours on a gallon of oil. Turned to

a simmering heat, it burns from 50 to 60 hours. This is real economy. Wherever valve is turned, it is locked by patented valve catch which prevents shifting and safeguards children.

### Bolo oven gives wonderful baking results

The built-in Bolo oven, exclusive feature of Vapo cabinet models, allows fast baking if you wish, because the adjustable Bolo plate makes the oven big or little. You can bake two things (fast and slow) in the same oven at the same time. Perfect ventilation insures light pastry, bread and cakes.

Vapo Ranges come with right or left hand oven.

Vapo oil ranges are sold by one high grade hardware or furniture dealer in nearly every community. If your dealer has none in stock, send us his name and write for a copy of our latest folder; and we will see that you are supplied.

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The Vapo Stove Company, Lima, Ohio



Oil Ranges  
Heaters  
Hot Water Heaters



### KEEPING MEAT IN SUMMER.

Can you tell me how to keep meat from moulding after smoking it. Would like to keep it for summer use.—Mrs. A. H.

If you will wrap the smoked meat carefully in heavy brown wrapping paper, then tie in a muslin bag and store in a dry cool place. I believe your meat will keep for summer use.

Some advise dipping the meat in paraffin and then sealing in a paper bag and storing in a dry cool place. A basement is often too damp for storing smoked meats.

### WATERPROOFING RUGS.

Could you tell me how to make water-proof rugs out of old carpet or gunny sacks so it can be used as linoleum?—Mrs. C. H.

To make old rugs and gunny sacks into a water-proof rug or linoleum-like floor covering, one must first wash them thoroughly; then with a large brush give them three coats of starch. Make the starch very stiff. Wait until each coat is thoroughly dry before applying the next one. Then paint with three coats of good paint, being sure that each coat of paint is thoroughly dry before applying the next.

If one has an artistic taste, they may make plain borders on the rug and make a really attractive furnishing for any room.

Make a dress form for daughter before she goes away to school. Keep it at home, and she can have the home dressmaker make her frocks while she is miles-away.

APPLE AND PEACH TREES: Improve your property. Increase your income. Plant fruit trees, vines and plants this spring. Our trees grow. Free catalog. MITCHELL'S NURSERY, BEVERLY, O.

## A Guaranteed Saving Direct from Manufacturer to You

**Pillow Cases**  
Stamped and Hem-stitched  
**\$1.20** Per Pair

No. 500  
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Made of fine quality pillow tubing. Sizes 36x42 inches and 36x45 inches. Guaranteed. Money refunded if not satisfactory. Order Now. We pay postage.

ROSE ART CO., Dundee, Mich.  
Gentlemen:  
Enclosed find \$.....for.....pairs pillow cases No.....Size.....  
Name.....  
Town.....State.....R. F. D.....

## BERRY SUPPLIES

A grade Berry Baskets (wood) and 16 quart crates. 40% cash discount till May first. Send for price card. Bee supply catalog for the asking. General agents in Michigan for Root's goods.

M. H. HUNT & SON

BOX 525 LANSING, MICH.

**STRAWBERRY PLANTS** Complete line of Fruit Trees, Small Fruit Plants, Asparagus Roots, Roses, Gladioli, Perennials, Ornamental Shrubbery, Etc. CATALOG FREE. WATSON'S STRAWBERRY ACRES Grape Vines \$25 and up per thousand. R. 8, Box 7, Grand Rapids, Mich.

Strawberry Plants Dunlap, \$3.00 per 1,000; Gibson, \$3.25 per 1,000. Seven other varieties. RASPBERRY PLANTS—Cumberland and Plum Farmer, \$12.00 per 1,000. Red, \$15.00 per 1,000. FRED STANLEY, Bangor, Michigan.

**STRAWBERRY PLANTS** \$3 per 1,000. Black Raspberry \$12; Red \$13. 20 Iris \$1. 8 apple trees \$1; 15 grapes \$1; 1,000 grapes \$25. We grow the best plants in Michigan. Free Catalogue. THE ALLEGAN NURSERY, Allegan, Mich.

**300 STRAWBERRY PLANTS \$2 POST PAID** New Ground Senator Dunlap HAMPTON & SON, R. 3 Bangor, Mich

**FOR SALE** Senator Dunlap, Dr. Burrell and Gibson Strawberry Plants. None better at any price. \$2 per 100; \$4.00 per 1,000, delivered. John J. Williams, Fremont, Mich.



## Wingarden Strain

### WHITE LEGHORN BABY CHICKS

**EGG BRED For 18 YEARS**

Here's what you get when you buy **Guaranteed Wingarden BABY CHICKS**

- (1) Pedigreed stock, sired by males whose dams had records of 260 to 289 eggs per year, and grand-dams 298 to 304 eggs.
- (2) 100 per cent live delivery.
- (3) Chicks guaranteed to be healthy.
- (4) Absolutely pure-bred.
- (5) Absolutely no culls.
- (6) Stock that withstands winter cold as well as summer heat.
- (7) Free entry in our annual flock performance contest, whereby you may obtain 200 of our best Barron English White Leghorns free.

We know the quality of our stock because we maintain 42 hatchery farms of our own, instead of buying eggs wherever available. Sired by Hollywood and Funk Farms Males, White and Brown Leghorns, Anconas.

Send for our catalog and read full particulars of the Wingarden Strain.

**Wingarden**  
HATCHERY & FARMS  
ZEELAND, MICH.  
Box M.

## Veri-Best Chicks

Postpaid to your door. 100 per cent Live arrival guaranteed. From Pure-bred, Select, Heavy Layers. Reference: First National Bank. You can order right from this Ad. with perfect safety.

Varieties.	Prices on 50	100	500
Wh. Br. Buff Leghorns, Anconas	\$7.00	\$13.00	\$60.00
Barred Rocks, Reds, Blk. Min.	8.00	15.00	72.00
White Rocks & Wyandottes	8.50	16.00	77.00
Buff Orpingtons	8.50	16.00	77.00
Mixed chicks, 10 cents each, straight, All Heavies, 12 cents each. You take no chances. Only 3 hours from Detroit. <b>QUALITY CHICK HATCHERY, Box A, Wauseon, Ohio.</b>			

## BRED TO LAY CHICKS

### Certified

100,000 Highest Quality Certified Baby Chicks. Improved Sheppard Strain S. C. Anconas—hard to beat. Winter and Summer, English Strain S. C. White Leghorns. All our Leghorns mated with Cockerels from E. E. Shaw Champion winning pen at M. A. C. 1923 laying contest. Personally culled and rated by experts and certified by Michigan Baby Chick Association. Guaranteed 100 per cent live delivery. Catalog Free. Take no chance with just as good, but get your best foundation pure-bred stock from The Reliable Poultry Farm & Hatchery, Paul De Groot, Mgr., R. 1, Dept. F, Zeeland, Mich.

## OVIE'S BABY CHICKS

### PROFIT MAKERS

Breeders of high egg production, combined with sturdy free-range stock of exhibition quality assures you of fine success with Ovie's Healthy Chicks. **BLOOD TESTED**

Tested for White Diarrhea and elimination of infected birds assures Profit Makers. 12 leading money-making breeds. Shipped prepaid and live delivery guaranteed. Write for Big Free Catalog. 80,000 chicks weekly.

**OVIE'S POULTRY FARM & HATCHERY**  
218 Boots Street  
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## Improved S. C. WHITE LEGHORN BABY CHICKS

We have been carefully breeding and culling our flocks for 11 years. Get your chicks from a breeder with prices as low as the city hatcheries. Our chicks give satisfaction. Postpaid. 100 per cent live arrival guaranteed. Circular free. **OTTAWA HATCHERY & POULTRY FARM, R. No. 10 Holland, Mich.**

## Wishbone Hatched CHICKS

The finest day-olds money can buy. Strong, big from free-ranged stock. All popular varieties. Shipped by parcel post. Write for moderate price list.

**Wolf's Hatchery, R. 11, Holland, Mich.**

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Try our lively and vigorous chicks from bred-to-lay and exhibition hens. They will make you money for they have the quality and egg-laying habit bred into them. A trial will convince you.

All leading varieties. Safe delivery. Prepaid. Prices right. Bank reference. Big, illustrated catalog free.

**Holgate Chick Hatchery, Box M, Holgate, Ohio**

## Buy Your Baby Chicks

from us this year and guarantee your profits. Purchasers of our chicks raise 95 percent instead of only 50 percent, because our flocks are culled for disease as well as highest egg production and because we hatch only in tested mammoth machines. Rocks, W. Leghorns, Reds, Anconas, Buff Orpington 9c up. Our large free catalog tells all about our superior, egg pedigree stock.

**MICHIGAN HATCHERY & POULTRY FARM.**  
Box 1  
Holland, Mich.

## Baby Chicks

\$12.00 per 100 and up. We are listing 12 varieties of pure-bred fowls, chickens, ducks and guineas. Send for prices and circulars. **Clinton Hatchery & Poultry Farms, Wilmington, Ohio.**

# OUR BOYS AND GIRLS

## Some Lucky Letters

*Picked from the M. C. Letter Box*

Dear Uncle Frank:  
I was reading in the Letter Box quite a while ago about a boy who had not used tobacco. Well, I have a father, seven brothers and one brother-in-law, and not one of them use tobacco. Now, if you can beat this, let's hear about it.—From an M. C., Alberta Reetz, Rose City, Mich.

Here is a record to beat. Apparently these men are not fruit growers, otherwise they would have to use tobacco for spraying their trees.

Hello, Uncle Frank:  
I guess you were right when you told Olga Jensen "tuff" luck is what we have to get used to, for this makes the fourth time I have tried and nothing has ever come of it, but I guess "stick to it" is the only way to succeed.—Your nephew, Herbert Ricketts, M. C., R. 2, Fowlerville, Mich.

I am glad that you have the "stick to it" idea. It is a good thing to cultivate, even if tuff luck is around.

Dear Uncle Frank:  
I visited a school today and my nice M. C. button was proudly fixed on my coat collar. Well, one of the girls noticed it and we got started to talking about the M. C. She said you were only twenty-seven years old! I could hardly believe it. But it's nice, I think, to have you be young. You can realize better what "us kids" want. Ha! ha! I mean in the line of contests. Two girls have told me that they saw my letter the first time I wrote.—Yours truly, Ida Yoder, M. C., Ashley.

The Merry Circle is so large that being a Merry Circler will broaden one's friendships. Your friend is a poor guesser when it comes to age.

Dear Uncle and Cousins:  
In reading Elva McClintic's letter my attention was attracted by her paragraph on "chain letters." I, too, have received one and did not answer its requests, but as yet the misfortune predicted for me has not occurred. I, like Uncle Frank, think they are all "bosh" and very unworthy of one's precious time. Don't you agree with me, cousins?

I am about five feet three inches tall and very slender. I have light brown bobbed hair and grey eyes. I am a French-Canadian but am called "Swede" by some of my more intimate

friends. I hope Harold Coles does not "boil over" when he hears that another "bobber" is calling on the Circle.—A would-be niece, Leona Methot, Trenary, Mich.

I am glad you have such a sensible idea about chain letters. Harold probably will not "boil over," as he has not even boiled lately.

Dear Uncle Frank:  
Say, Uncle Frank, don't you think that instead of asking you how old you are, they should ask how young you are? You look young in your picture, to me.

If we send in a good story or verse at any time, can we get a membership card and button?—Your niece, Lidia Piaseczny, Black River, Mich.

No memberships will be given for stories, or anything else, except in answer to contests. Thanks for your compliments.

Dear Uncle Frank:  
How many proposals have you received through the mail this year, Uncle Frank? I propose that you put this letter in print.—Your niece, Lorraine Warren, R. 2, Auburn, Mich.

This being leap year, I accept your proposal, as you see. Come again some time. Your sister Elda says I am a mysterious old bird. Perhaps I am, but I haven't sprouted any feathers yet.

Dear Uncle Frank:  
I haven't my hair bobbed yet, but it is getting awfully short and stubby. I sure would look like everything with my hair bobbed for I'm nearly six feet. They would think I was a traveling telephone pole, ha! ha!

I have been thinking for some time of "Clarissa's Vision." She sure has a great imagination. I hardly think this jolly crowd will ever fall behind, for every week we read of more boys and girls receiving their membership cards and button.

Well, this is getting long so I had better stop for now.—As B-4, Neita Brown, M. C., 1444 Prospect Street, Lansing, Mich.

Apparently your hair has been getting shorter while you have been getting longer. No, I have no fear of Clarissa's Vision ever becoming true.

## What Spring Means to Me

By Guilford Rothfuss, Norvell, Mich.  
**T**ENNYSON, that great English poet, once wrote a poem, "Locksley Hall" by name, in which were contained these words. "In the Spring the young man's fancy lightly turns to thoughts of love." A certain modern humorist (probably a baseball fan) has put it, "In the Spring the young man's fancy lightly turns to thoughts of baseball."

That is certainly true in my case. I love to play baseball better than any games I know of. I play it in my spare time all through the Spring. Why shouldn't I? It is a good clean game, with plenty of thrills and excitement. That is what makes it so popular, and that is why it is called, "The Great American Game."

It takes skill and ability, clear thinking, good judgment, an active body, a knowledge of the game, and above all, a sincere liking of the sport to play baseball successfully. If a person has all these qualities, there is no reason why he should not become a good player. Of course he can't expect to become an expert overnight. It takes years of practice and experience to play baseball successfully, for there is so much to the game.

What Spring means to me, therefore, can be summed up in a few words. Baseball and all that goes with it. That exhilarating feeling, that "thrill that comes once in a lifetime" (when

you crack out a home-run with the bases full, for instance) can be found in only one game I know of, and that is baseball.

By Miss Laura Bowers, Edwardsburg, Michigan.

Spring! What a thrill enters my heart at the sound of the name. It means many sunny hours and frequent tramps through the fields and woods. How I love to hear the many sweet songs of the birds and feel the soft cool breezes blowing over me and through my hair.

Everything is fresh and green and every shrub and blade of grass will come to life. Not only the grass and plants will put forth new life but we, ourselves, will want to get busy. Farmers will be up at early dawn and start over the hills with the team and plow while up the hill the cowboy comes bringing the cows from being milked.

Then with lagging steps we enter the schoolroom to be made prisoners by its rules when outside Mother Nature is so willing to teach us. But then, school days will soon be over and again we will be free.

Robin is now calling to his mate to come and share a nice big fat worm with him. How happy it makes one feel to wake at early dawn to find Sir Robin on a bough next your window singing his morning song. No one can be sad.

## Write Quick for REDUCED PRICES CERTIFIED CHICKS

From World's Best Laying Strains

Tancred pedigree-sired, and Tom Barron S. C. White Leghorns, R. C. Rhode Island Reds; Park's Barred Plymouth Rocks.

**Your Satisfaction Guaranteed**

Our flocks are all inspected and certified by the Michigan Agricultural College. Watch our pens at M. A. C. East Lansing, Mich. Every bird is well matured and vigorous. No culls in our flocks. Our chicks are bred right, hatched right, and shipped right. Every one is strong and healthy. 100% live delivery postpaid. Satisfaction absolutely guaranteed.

Illustrated catalog sent free. Buy Lake-view chicks if you want to make money. Write for low prices today sure.

**Lakeview Poultry Farm, R. 8, Box 8 Holland, Mich.**

## PURE BRED CHICKS

What our Customers say—

Elmer Arnold—801 eggs in 14 days in December from 85 June hatched White Leghorns; Herman Broegeler—Bought 100 Anconas chicks, raised 69 pullets, 80 cockerels, F. R. Wallis—Ordered 100 chicks, received 103, raised every one. This wonderful vitality and laying ability shows why, as this is written, our S. C. W. Leghorns lead in Michigan's international laying contest. Our strains are Tom Barron Imported and Hollywood S. C. White Leghorns, Sheppard's Famous S. C. Mottled Anconas and Parks Bred to Lay Barred Rocks. Chicks shipped postpaid, 100% live delivery guaranteed. Big illustrated catalog sent free.

**Silver Ward Hatchery, Box 29 Zeeland, Mich.**

## EGG BRED CERTIFIED CHICKS

from our Free range flocks of Hollywood and Barron improved English White Leghorns, 250-300 Egg-bred line, Sheppard's Strain of Anconas direct, Parks strain Barred Rocks & Br. Leghorns. Quality and high egg yield due to 11 years careful breeding on our 65 acre farm. Culled, mated, rated by experts. Strong vigorous chicks 100, \$14; 500, \$65. Barred Rocks 100, \$18; 500, \$85. Write for catalog and prices on selected Special Star matings. Postage prepaid.

## Journ Line POULTRY FARM

ZEELAND MICH.

## PURE BRED BABY CHICKS

We have been carefully developing our flocks for eight years. Every chick pure-bred and from stock carefully culled, for type and production. Our chicks give satisfaction. Order today for May Delivery.

Wh. Leghorns	100	500
.....	\$7.00	\$13.00
Bl. Rocks, R. I. Reds	8.00	15.00
.....	8.00	15.00

Postpaid. 100 per cent live delivery. You take no chances. Ref. Farmers' & Mechanics' Bank, this city. No catalog. Order from this ad.

**WASHTENAW HATCHERY, R. 5, Ann Arbor, Mich**

## Certified Chicks

at popular prices. We won 1st and 4th prize this year on English strain White Leghorn Hen at the National Poultry Show, Chicago, also first at Zeeland Poultry Show. Other breeds have had same careful supervision in developing and breeding. Pure-bred stock carefully culled. 100 per cent live arrival guaranteed. Our chicks are money makers and will improve your flock. Write for catalog and prices. A trial will convince you. All flocks certified.

**AMERICAN CHICK FARM, B. 115-A, Zeeland, Mich.**

## QUALITY CHICKS AT REASONABLE PRICES

English White Leghorns, Parks' Strain Barred Rocks, S. C. Black Minorcas, Reds and Anconas. Mated pen (15) at the 1923 Mich. Contest finished third among all heavy breeds, four hens making records over 200 eggs each, and one with a record of 254 eggs was seventh highest individual for the entire contest, 990 birds competing. Catalog free.

**PINE BAY POULTRY FARM, HOLLAND, MICH.**

## Baby Chicks

Postpaid to your door. Guarantee 100 per cent live arrival. Heavy laying, pure-bred flocks. White, Brown & Buff Leghorns, 50, \$7; 100, \$13. Barred Rocks, Reds, Anconas, Minorcas, 50, \$8; 100, \$15. White and Columbian Wyandottes, White Rocks, Black Spanish, Black Minorcas (choice), 50, \$9; 100, \$17. Catalog Free. **WHY NOT BUY GOOD CHICKS? THE C. M. LOWER HATCHERY, Box 30, Bryan, Ohio.**

## Baby Chicks S. C. W. Leghorns

—Only Pedigreed Certified

Michigan's Largest S. C. W. Leghorn Farm, over 2000 Birds. Hatch our own eggs only. Supply limited. Order early. One trial will convince you. Free Circular.

**SIMON HARKEMA and SON,**  
R. 1,  
Holland, Michigan

## BOS QUALITY; CLASS A CHICKS ONLY.

Strong, Healthy. From heavy layers. S. C. Tom Barron Eng. White Leghorns, Brown Leghorns 12c. Sheppard's Anconas 13c; Assorted 10c. No money down with order. 100 percent safe delivery. Postpaid. Catalog free. **Bos Hatchery, Zeeland, Mich., R. 2M.**



# White Diarrhea Stopped in 48 hours

If chicks are "pasted up", weak, wobbly, with no appetite, don't waste a minute!

White diarrhea kills half of nearly every hatch of chicks. It's strange how many people do nothing either to prevent the trouble or end it, thinking this loss can't be stopped. But it can be stopped, without extra work, without troublesome dosing, and at almost no cost. For years, thousands have saved their sick chicks and raised nearly every chick in every hatch, by merely dropping an Avicol tablet in the drinking water. Successful poultry raisers say there is nothing else like Avicol for this purpose.

## Trouble gone in 2 days

Chas. N. Kittinger, Willows, Calif., writes: "Twelve of my chicks had diarrhea by the time I received my Avicol. I immediately gave them some, and by the second day, the trouble disappeared and now they are all as lively as crickets. If I had only known of Avicol sooner, I would have saved lots of chicks."

It is wonderful how sick, droopy, chicks, within 48 hours after they get Avicol, become just as lively as Mr. Kittinger says. No matter how rapidly the trouble is spreading, they stop dying almost the very day Avicol is put in their drinking water.

## "Stopped dying at once"

"Last spring I bought 25 baby chicks," writes Mrs. John Shaffer, Owen, Wis. "When about a week old, they began dying, would get droopy and in a few hours would die. When I had 15 left, I began giving Avicol and they stopped dying at once. I did not lose another one."

## Costs nothing to try

Why should anyone sit back and let baby chicks die? It costs nothing to try Avicol. Readers are urged to write to the Burrell-Dugger Co., 642 Allen Ave., Indianapolis, Ind., sending 50 cents, as a deposit, for a package by mail prepaid (or pin a dollar bill to your letter for the extra large size holding nearly 3 times as much). If you prefer, send no money, but deposit the money with the postman on delivery. Either way, you won't risk a cent. If Avicol doesn't stop your chick losses immediately, if it isn't superior to anything else you ever heard of, if it doesn't satisfy you in every way, every cent of the money you have deposited will be refunded by the manufacturers.

Burrell-Dugger Company, 642 Allen Avenue Indianapolis, Indiana

## LEE'S LICE KILLER

The Old Reliable Has proven itself year after year the one sure way to rid poultry of lice, mites, bedbugs, body lice and such vermin. Paint or spray on roosts, etc. No dusting, dipping, greasing, handling. Get it at your drug or seed store, or write us for particulars and valuable free book. GEO. H. LEE CO. Omaha, Nebr.

## DON'T LOSE BABY CHICKS

GERMOZON, for 25 years the reliable remedy, will rid them of Roup, Colds, Bowel Trouble, etc., and keep them healthy. "A wonder worker." Used by hundreds of thousands. Get it at drug or seed store, or order of us by card—75c and \$1.50 sizes, delivered. Postman will collect. No extra charge. Order today. GEO. H. LEE CO. Omaha, Nebr.

## Baby Chick Feeders and Fountains

Simple—Sanitary—Automatic Used and Endorsed by the largest Hatcheries and Poultry Farms in the United States. We want to send you our Catalog of POULTRY SUPPLIES. IT'S FREE!

THE McCURDY MFG. CO. DEPT. B, ADA, OHIO.

The Balance is Perfect - that's why chicks thrive on DICKINSON'S Globe Chick Mash (With Dried Buttermilk)

DICKINSON'S GLOBE CHICK MASH

THE ALBERT DICKINSON CO. CHICAGO, ILL.

## ART CONTEST RESULTS.

Quite a few boys and girls who are ambitious along artistic lines responded to the art contest. Some did excellent work, others did good work and still others not so good. Besides there were some, quite a few more than I would like to see, who traced their drawings instead of drawing them free-hand as I asked them to.

I am sorry that this is so, as I want the Merry Circlers to be fair and square about their work. It isn't fair to cheat, even if cheating does sometimes get you a little. In the end one always loses out by cheating, therefore it is a bad habit to get into.

The purpose of this contest was to show how the lights and shadows are used in modern art work. There is very little detail shown in this kind of work and the object is mostly brought

## Joke Contest

It has been a long time since I have had a joke contest, so I judge many of you have a bunch of new jokes that are worth telling. Therefore, in this contest please tell the three best jokes you have heard.

To the ten who send the three funniest jokes, we will give prizes as follows: The first two, fountain pens; the next three, flashlights; the next five, little boxes of candy.

This contest closes May 2.

Those not Merry Circlers who send in good jokes will get M. C. pins and cards.

Put your name and address in the upper left hand corner of the paper. If you are a Merry Circler, put M. C. after your name.

Send your jokes to Uncle Frank, Michigan Farmer, Detroit, Michigan.

out by solid patches of light and shade. Quite a few of the boys and girls got the idea very nicely.

Judging from the response, this contest was popular, so we may have another drawing lesson contest in the near future.

The prize winners in this contest were:

### Fountain Pens.

Rosaline Linderer, R. 1, Newaygo, Mich.

Bernice White, 1016 Maple Street, Albion, Mich.

### Flashlights.

Arthur Uecker, R. 3, Howard City, Mich.

Harold Coles, Montgomery, Mich.

Helmi M. Wirtanen, Trenary, Mich.

### Candy.

Carl Wallen, Ewen, Mich.

Hilda Baumeister, South Rockwood, Mich.

Emma Sapatka, Wellston, Mich.

Edna Federspiel, Sterling, Mich.

Mae Batzer, Lake City, Mich.

## ANOTHER LUCKY LETTER.

Dear Uncle Frank:

Every one in the Michigan Farmer criticizes me so much that I thought I would write again. I got rather peeved at Polly Livinicky for saying she laughed at me and that I was a pessimist. I am not one at all.

I wish a few more girls' and boys' fathers would take this paper, because then the children could become members of this thriving club which is just the opposite of what I said in my "nightmare," as some one expressed it.

I saw Birdene Coles' picture in the paper and was certainly glad to see it, because she is the girl I have been writing to.

I don't know your age, your whole name or your birthday, and neither does any one else, I guess, but I'd like to know when your birthday is or was.

Well, I must quit my chatter and say au revoir.—Your loving member and niece, Clarissa Englebert, M. C., Concord, Mich.

I used your "Vision" as an example of imagination, not as one of pessimism. About my birthday—my last one has passed and my next one is coming. Every time fall begins I am a year older.



# WOLVERINE CHICKS

Always Good - - - Easy to Raise Improved S. C.

## White Leghorns

Bred for Eggs Since 1910

ONCE A CUSTOMER, ALWAYS A CUSTOMER

Chicks from this high-grade laying strain will give you bigger profits, and absolute satisfaction. They have 13 years of careful selection and breeding direct behind them, and mature in the shortest possible time. You will be benefited by our 13 years' experience in hatching and shipping chicks, for they grow up uniform in size. They possess great vitality. Let us mail you our catalog with prices. 100 per cent safe arrival guaranteed.

## WOLVERINE HATCHERY

H. P. WIERSMA, Prop. R. 2, ZEELAND, MICHIGAN

## ONE MILLION READY MADE GOOD LUCK CHICKS

\$10.00 PER 100 AND UP

This season get our Big, fluffy, healthy, vigorous, "Good Luck" chicks and REAP BIG PROFITS.



Varieties.	Prices on 50	100	300	500
White Brown & Buff Leghorns.....	\$ 7.00	\$13.00	\$38.00	\$62.00
Barred and White Rocks.....	8.00	15.00	44.00	72.00
R. C. & S. C. Reds, Anconas.....	8.00	15.00	44.00	72.00
White Wyandottes, Black Minorcas.....	8.50	16.00	47.00	77.00
White & Buff Orpingtons.....	8.50	16.00	47.00	77.00
Silver & Partridge Wyandottes.....	11.00	20.00	58.00	95.00
Light Brahmans, Buff Minorcas.....	11.00	20.00	58.00	95.00
Speckled Sussex.....	11.00	20.00	58.00	95.00
Mixed Chicks, \$10 per 100.....	11.00	20.00	58.00	95.00

Postpaid. Full Live Delivery Guaranteed. Bank Reference.

The Neuhauser "GOOD LUCK" chicks are prized by thousands of customers everywhere for their Beauty, Type and Heavy Egg Production. We hatch only from the best selected parent flocks. We send you BIG, STRONG, STURDY CHICKS. Order right from this ad with full remittance. Get them when you want them. You take no chance with Neuhauser's Good Luck Chicks. Catalog Free. Member I. B. C. A. and Ohio Association.

NEUHAUSER CHICK HATCHERIES, Box 72, NAPOLEON, OHIO. Greatly reduced prices after May 24th Write for them.

## HUBER'S RELIABLE CHICKS OUR 15th. YEAR 1000000 for 1924

POSTPAID, 100 PER CENT LIVE DELIVERY. Give us your order for OUR RELIABLE CHICKS and we will prove to you, IF BETTER CHICKS COULD BE HATCHED FOR THE MONEY WE WOULD BE HATCHING THEM.

FLOCKS PURE BRED CULLED BY EXPERTS FINE ILLUSTRATED CATALOG FREE. Tells how we produce RELIABLE CHICKS that have pleased thousands of customers. We hatch 13 Varieties.COMBINATION OFFERS. VALUABLE BOOK GIVEN FREE with each order. HUBER'S RELIABLE HATCHERY, East High St., Fostoria, Ohio.

## PURE BRED BIG VALUE CHICKS

Best paying standard varieties from healthy free range utility flocks, carefully inspected, culled, and Hogan tested. Quick maturing, High Egg Production. Each

	25 Chicks	50 Chicks	100 Chicks	500 Chicks	1000 Chicks
S. C. White L., B. L., Buff L.....	\$3.25	\$6.25	\$12.50	\$60.00	\$120.00
S. C. H. Minorcas, S. C. M. Anconas, as, Barred Rocks, S. C. R. I. Reds, White Rocks, R. C. R. I. Reds, White Wyandottes.....	3.75	7.50	15.00	72.50	140.00
Utility & English S. C. W. Leghorns.....	4.00	8.00	16.00	77.50	150.00
S. C. White, S. C. Buff Orpingtons.....	4.25	8.50	17.00	82.50	160.00
Mixed, All Breeds.....	2.50	5.00	10.00	50.00	100.00

Wolf Hatching & Breeding Co., Dept. 5, Gibsonburg, Ohio

## Keystone Quality Chicks

From Early Maturing Stock. Bred in Michigan—Hatched in Michigan

Prepaid Prices for May Delivery on	50	100	500	1,000
1. Foreman Strain B. P. Rocks.....	\$10.50	\$20.00	\$95.00	\$180.00
2. Extra Select B. P. Rocks & R. I. Reds.....	9.50	17.00	80.00	160.00
3. Select B. P. Rocks, S. C. & R. C. R. I. Reds.....	8.00	15.00	72.50	140.00
4. W. Wyandottes, Buff Orpingtons & W. P. Rocks.....	9.00	17.00	80.00	160.00
5. Utility & English S. C. W. Leghorns.....	6.50	12.00	57.50	115.00
6. Special American S. C. W. Leghorns.....	8.00	15.00	72.50	140.00

Full live delivery guaranteed. Order direct from this ad, and save time. Send P. O. Money Order, Bank Draft, or Certified Check. Member International Baby Chick Association. Ref.: Milan State Savings Bank.

The Keystone Hatchery and Poultry Farms, Box 8, Lansing, Michigan

## BETTER CHICKS AND MORE OF THEM

Barred Rocks 50, \$7.00, 100 \$13.50, 500 \$65.00; S. C. W. Leghorns 50, \$5.75, 100 \$11.00, 500 \$52.50; S. C. Anconas 50, \$6.75, 100 \$13.00, 500 \$62.50. Our Chicks are from well kept, well fed, free range, heavy producing flocks, looked after by ourselves. Chicks from those flocks we have sold for over nine years to hundreds of satisfied customers. "I have the best hens out of the chicks I got of you last year that I ever had," writes James Bogart, Charlevoix, Mich. Order direct from this ad or write us. Still better, call on us if possible, and let us talk things over. We are located on the M-11 cement road 2 miles north of Holland. Visitors always welcome. DILIGENT HATCHERY, Holland, Mich. H. J. KNOLL, Owner.

## EARLY MATURING BABY CHICKS From Carefully Selected Pure-bred Stock

Quality	Type	Dependability	Production	
Prepaid prices for May Delivery on	50	100	500	1,000
1. Foreman Strain B. P. Rocks.....	\$10.50	\$20.00	\$95.00	\$180.00
2. Extra Select B. P. Rocks and R. I. Reds.....	9.50	17.00	80.00	160.00
3. Select B. P. Rocks, S. C. & R. C. R. I. Reds.....	8.00	15.00	72.50	140.00
4. W. Wyandottes, Buff Orpingtons & W. P. Rocks.....	9.00	17.00	80.00	160.00
5. Utility & English S. C. W. Leghorns.....	6.50	12.00	57.50	115.00
6. Special American S. C. W. Leghorns.....	8.00	15.00	72.50	140.00

Full live delivery guaranteed. Order direct from this ad, and save time. Send P. O. Money Order, Bank Draft, or Certified Check. Member International Baby Chick Association. Ref.: Milan State Sav. Bk. MILAN HATCHERY, Box 4, Milan, Mich.

## "EGG-BRED" BABY CHICKS

S. C. English White Leghorns \$11.00 per 100 Postpaid

EXTRA SELECTED STOCK \$13.00 per 100 Postpaid

100 per cent live arrival guaranteed. Hatched from strong vigorous stock that will lay and PAY. Circular free.

OTTAWA HATCHERY & POULTRY FARM, Holland, R. 10, Mich.

## FREE FEED "Just-Rite" CHICKS

with Most Profitable Varieties. Trapnest-Exhibition, Pedigree, and Utility Matings, direct from prize-winners at New York, Chicago, Nat'l Egg Laying Contests. Neatest quality. None better, at any price. Satisfaction and 97 per cent live arrival guaranteed. Postpaid. Low Prices. Big Catalog FREE. Stamps appreciated.

NABOB HATCHERIES, Ave. 20, Gambler, Ohio Ohio Chicks are Better

## FARROW CHIX FOR SUCCESS

Profit Makers—Early Layers Leghorns, Anconas, Rocks, Reds, Wyandottes, Orpingtons, Minorcas. Lowest prices. Write for catalog.

D. T. Farrow Chickeries, Dept. 33, Peoria, Ill.

## CHICKS

White and Barred Rocks, White Wyandottes, White and Buff Orpingtons, White Leghorns, Reds, Live Arrival Guaranteed. Postpaid Order from this ad, and get the best.

DURAND HATCHERY, Fenton, Michigan.

Additional Poultry Ads on Page 623



# CHICKS From World's Greatest Layers

If you want pure bred chicks that are bred right, hatched right, and shipped right, that grow and will make you a profit, get our new low prices and free catalog before you buy.

Tom Barron White Leghorns Heavy Type Brown Leghorns  
R. C. & S. C. Rhode Island Reds Park's Barred Rocks

Flocks are carefully culled and developed on free range. All chicks are hand picked and inspected, no cripples or weaklings. Every one strong and healthy. Satisfaction and 100% live delivery guaranteed. Postage paid. Write now for our low prices and free catalog. White Leghorn and Barred Rock pullets after May 1, at low prices.  
**KNOLL'S HATCHERY, R. R. 12, Box M, HOLLAND, MICH.**



## HEN-HATCHED MALE BIRDS.

BY R. G. KIRBY.

I KNOW of one prominent Leghorn breeder who has been hen-hatching and hen-brooding enough stock each year to obtain the male birds for the next season's matings. This has seemed to produce chicks of a shade better vigor and helps him to keep up the vitality of his commercial laying flocks.

The bulk of the stock are hatched in incubators and brooded artificially because that is the most economical way of producing large flocks of pullets. The additional work of hen-hatching and brooding need only be carried on with a few hens in order to obtain enough male birds to reproduce the flock. I think it will pay many Leghorn breeders to keep a few Brahma or Plymouth Rock hens for the purpose of raising some hen-hatched Leghorn cockerels each year.

Nearly every year I have used both methods of raising Barred Rocks and have found that the cockerels from the hen-hatched and hen-brooded stock are a shade better than the incubator stock. At the same time the bulk of the flock has been artificially hatched and brooded because that is the only economical and sure way to obtain large numbers of early hatched birds. If we can be sure each year of raising cockerels of the highest type of vitality it is much easier to keep up the vigor and egg-producing ability of the flock, even though nearly all the pullets are hatched in incubators and brooded in large flocks.

This does not mean that incubator chicks lack seriously in vigor. It just means that the hen-hatched stock seems to be just a shade better in many instances and that difference is worth considering, at least in the production of the male birds.—K.

### DON'T WASH EGGS.

IF eggs are dirty, don't wash them, is the advice offered by the U. S. Department of Agriculture. Washed eggs deteriorate more rapidly than unwashed, and detection of a few washed eggs may cause buyers to penalize the entire lot.

Unusually large quantities of washed eggs are reported this spring, the department says. Although dirty eggs are discounted in price, washing eggs will generally cause producers a greater loss.

Only clean, unwashed, high-quality eggs bring top prices. Production of clean eggs is accomplished by keeping hen house floors and nests clean, gathering the eggs daily and keeping the laying hens during muddy weather in dry quarters until afternoon, when most of the eggs will have been laid. Producers will find it more profitable to use the soiled eggs on the farm, and to market only the best quality product, the department says.

### CASH VALUE OF SKIM-MILK.

Have an opportunity to purchase skim-milk from a nearby farm for chicken feed. What is its feed value and what is a fair price for it per gallon?—E. R. L.

The Cornell Experiment Station give skim-milk a value of one cent per quart for poultry feeding. Many poultrymen believe that sour milk has a value greater than its nutritive contents might indicate because of the favorable action on the digestive tract. The vitamins seem to enable hens to lay eggs that produce strong chicks and also enable chicks to make a rapid development.

When buying skim-milk in the neighborhood the price might be less than one cent per quart, depending on the quantity for sale and its value to the producer. If the producer is feeding poultry or pigs he would naturally place a higher value on the milk than as if it were a by-product he was glad to sell.

## White Diarrhea

Remarkable Experience of Mrs. C. M. Bradshaw in Preventing White Diarrhea

The following letter will no doubt be of utmost interest to poultry raisers who have had serious losses from White Diarrhea. We will let Mrs. Bradshaw tell of her experience in her own words:

"Gentlemen: I see reports of so many losing their little chicks with White Diarrhea, so thought I would tell my experience. I used to lose a great many from this cause, tried many remedies and was about discouraged. As a last resort I sent to the Walker Remedy Co., Dept. 507, Waterloo, Iowa, for their Walko White Diarrhea Remedy. I used two 50c packages, raised 300 White Wyandottes and never lost one or had one sick after giving the medicine and my chickens are larger and healthier than ever before. I have found this company thoroughly reliable and always get the remedy by return mail.—Mrs. C. M. Bradshaw, Beaconsfield, Iowa.

### Cause of White Diarrhea

White Diarrhea is caused by the Bacillus Bacterium Pullorum. This germ is transmitted to the baby chick through the yolk of the newly hatched egg. Readers are warned to beware of White Diarrhea. Don't wait until it kills half your chicks. Take the "stitch in time that saves nine." Remember, there is scarcely a hatch without some infected chicks. Don't let these few infect your entire flock. Prevent it. Give Walko in all drinking water for the first two weeks and you won't lose one chick where you lost hundreds before. These letters prove it:

### Never Lost a Single Chick

Mrs. L. L. Tam, Burnetts Creek, Ind., writes: "I have lost my share of chicks from White Diarrhea. Finally I sent for two packages of Walko. I raised over 500 chicks and I never lost a single chick from White Diarrhea. Walko not only prevents White Diarrhea, but it gives the chicks strength and vigor; they develop quicker and feather earlier."

### Never Lost One After First Dose

Mrs. Ethel Rhoades, Shennandoah, Iowa, writes: "My first incubator chicks, when but a few days old, began to die by the dozens with White Diarrhea. I tried different remedies and was about discouraged with the chicken business. Finally, I sent to the Walker Remedy Co., Waterloo, Iowa, for a box of their Walko White Diarrhea Remedy. It's just the only thing for this terrible disease. We raised 700 thrifty, healthy chicks and never lost a single chick after the first dose."

### You Run No Risk

We will send Walko White Diarrhea Remedy entirely at our risk—postage prepaid—so you can see for yourself what a wonder-working remedy it is for White Diarrhea in baby chicks. So you can prove—as thousands have proven—that it will stop your losses and double, treble, even quadruple your profits. Send 50c for package of Walko—give it in all drinking water for the first two weeks and watch results. You'll find you won't lose one chick where you lost hundreds before. It's a positive fact. We guarantee it. The Leavitt & Johnson National Bank, the oldest and strongest bank in Waterloo, Iowa, stands back of this guarantee. You run no risk. If you don't find it the greatest little chick saver you ever used, your money will be instantly refunded.

WALKER REMEDY CO., Dept. 507, Waterloo, Iowa

Send me the [ ] 50c regular size (or [ ] \$1 economical large size) package of Walko White Diarrhea Remedy to try at your risk. Send it on your positive guarantee to instantly refund my money if not satisfied in every way. I am enclosing 50c (or \$1.00). (P. O. money order, check or currency acceptable.)

Name.....  
Town.....  
State..... R. F. D.....

Mark (X) in square indicating size package wanted. Large package contains nearly three times as much as small. No war tax.

## Royal Egg-Bred Chicks

S. C. English Type White Leghorns and Brown Leghorns

You want strong, healthy chicks that grow fast into heavy producing Leghorns. You can have these chicks from us at a very reasonable price. Old customers took over 65 per cent of our chicks last year. H. A. Burke, of Green Bay, Wis., writes he had 70 per cent production during Dec. and Jan., 22 below zero, of chicks bought from us May 1st, 1923. 12 years of breeding for heavy egg production. Carefully selected breeders, headed by large, vigorous males and many years of successful hatching and shipping chicks, gives you chicks that will bring you success. 100 per cent live arrival guaranteed. Catalog price list free. Write today. ROYAL HATCHERY AND FARMS, S. P. Wiersma, R. 2, Zeeland, Mich.



## Dundee Chicks

Are from pure-bred flocks culled by M. A. C. graduates. Only choicest breeders kept. Best utility and exhibition matings. Barred Rocks, 230 to 302 egg strain. R. I. Reds from Liddicott's best, Anconas direct. Sheppard's White Leghorns direct M. A. C. Get 1924 catalog, price list. Reference, Dundee State Savings Bank.

### THE DUNDEE HATCHERY

Box A, Dundee, Michigan

## QUEEN QUALITY CHICKS

from Best Blood Line Free Range Flocks.

Developed and Culled by Experts--Barron Strain English White Leghorns, Brown Leghorns and Sheppard's Anconas. Sturdy, Healthy Chicks. Just a little more for your money. Safe delivery guaranteed. Write for Catalog.

QUEEN HATCHERY & POULTRY FARM :: ZEELAND, MICH.

## 750,000 CHICKS \$10.00 PER 100 AND UP

Select, culled flocks of heavy layers on free range and properly cared for to produce vigorous, sturdy chicks.

White, Brown & Buff Leghorns, Anconas	25	50	100	500	1,000
White & Barred Rocks, Reds, Black Minorcas	\$3.75	\$7	\$13	\$60	\$120
White Wyandottes, Buff Orpingtons	4.25	8	15	72	140
Buff Minorcas, Silver Laced Wyandottes	4.50	8.50	16	77	...
Mixed chicks \$10.00 per 100 straight.	6.00	11	20	...	...

Postpaid. 100 per cent live arrival guaranteed. Order right from this ad. Bank references. Circular Free.

TRI-STATE HATCHERIES Box 533 ARCHBOLD, OHIO



## HUNDERMAN'S First-Class Chicks \$10 AND UP

We are heavy producers of pure-bred Chicks. Flocks on free range. Culled by an expert. 100 per cent Live Delivery Guaranteed. Order today from this Ad. and get Chicks when you want them.

Varieties	25	50	100	500	1,000
English S. C. White Leghorns	\$3.50	\$6.50	\$12.00	\$57.50	\$115.00
Barred Rocks, S. C. Reds	4.25	8.00	15.00	72.00	140.00
Odds and Ends	3.00	5.50	10.00	72.50	140.00

Blue Hen Incubators. Reference: Zeeland State Bank. Order today. You take no chances. Orders booked for 10 percent down balance 10 days before chicks are to be shipped. Catalog free. HUNDERMAN BROS. POULTRY FARM, Box 25, Zeeland, Michigan.

## CHIX Barron Strain White Leghorns Exclusively

The large heavy egg producers. If you want big, strong, husky CHICKS that are easy to raise, mature quickly, and have the vitality to produce the maximum quantity of eggs in the coldest weather we have the stock that you want. Why buy "CHEAP CHICKS" when you can get "THE BEST" at cheap prices? PULLETS, HENS, and COCKERELS after May 1st. Get our free Circular and Prices before you buy. We positively guarantee satisfaction. PROGRESSIVE POULTRY FARMS, P. Ver Hage, Mgr. Zeeland, Mich.

## CHICKS

We can save you money on Ancona and White Leghorn Chicks. Send at once for catalog and prices. We insure your chicks for one week.

M. D. WYNGARDEN

R. 4, Box 80 Zeeland, Mich.

## BABION'S QUALITY CHICKS

Varieties	25	50	100	500	1000
Pure English White, Brown & Buff Leghorns	\$4.00	\$7.00	\$13.00	\$62.00	\$120.00
Barred Rocks, Reds, Anconas, Minorcas	4.25	8.00	15.00	72.00	140.00
Wh. & Buff Rocks, Wh. Wyandottes	4.50	8.50	16.00	77.50	150.00
Sil. Wyandottes, Orpingtons	5.50	10.00	19.00	92.00	180.00

OUR EXTRA SELECTED FLOCKS will be \$3.00 per 100 higher and Chicks from our Fancy Stock of BLUE RIBBON PENS will be \$5.00 per 100 higher. Postpaid. 100 per cent live delivery guaranteed. Bank references. You cannot go wrong. Order from this ad. Thousands satisfied. Ten years' experience. Our slogan: the best chicks are cheapest, not the cheapest chicks the best. Also 8 week pullets \$1.25 up. BABION'S FRUIT AND POULTRY FARMS, Flint, Michigan.

## Great Northern Hatchery Pure Bred Selected Flocks 100% Live Delivery

Strong, Sturdy, Northern-grown Chicks. Selected, pure-bred stock. Healthy Flocks on free range insure strength in every Chick. Order from this Ad.	50	100	500	1000
Leghorns (S. C. White and Brown)	\$7.00	\$13	\$62	\$120
Barred Rocks	8.00	15	72	140

Mixed Broiler Chicks, \$12 per 100 straight. Hatched under best conditions in Newtown Incubators. Every Chick carefully inspected. 100 per cent live delivery guaranteed. Reference, State Commercial Savings Bank, this city. Write for prices on special matings. GREAT NORTHERN HATCHERY, Box 56, Zeeland, Michigan.

## Highest Quality Certified Baby Chicks

From Michigan's Old Reliable Hatchery, the best equipped and most modern Hatchery in the State. Pure-bred Tom Barron English and American White Leghorns, Anconas, Barred Plymouth Rocks and Rhode Island Reds. Strong, well-hatched Chicks from tested Hoganized free-range stock that make wonderful winter layers. Chicks sent by Insured Parcel Post, Prepaid to your door. 100 per cent live delivery guaranteed. Sixteen years of experience in producing and shipping Chicks, giving absolute satisfaction to thousands. Write for valuable illustrated free catalog and price list. Get lowest price on best quality chicks before placing your order.

W. VAN APPELDORN, R. 7, Holland, Mich

## Whittaker's Reds Chicks

And eggs for hatching. Rose and Single Combs. Michigan's greatest color and egg strain. Bred from fourteen generations of winter layers. Write for free catalog. Interlake Farm, Box 39, Lawrence, Mich.

## BABY CHIX

PEDIGREE SIBED Eng. W. Leg. (Barron Strain), direct from our farm, delivered 100 per cent alive at your door at \$13.00 per 100; \$60 per 500; \$110 per 1,000. Chix sold from our own flock only. Send for circular. Model Poultry Farm Zeeland R. 4, Mich.





**TAKE**  
Las-Stik Tube Patch for emergencies. Adheres instantly without heat. Can't come off.  
Elastic - stretches with inflated tube. Can't creep or tear out. Trade-marked white sheets 50c and \$1.00 sizes.  
Las-Stik Patch Mfg. Co.,  
Hamilton, Ohio

**Las-Stik**  
TUBE PATCH

**STOP WASTING TIME AND MONEY**  
Put United Milker

Simple, sanitary, efficient, safe milking features to work for you at once. The famous Pump-Pulsator type Milker with the "See-thru" teat cup. Action as smooth and natural as that of a calf. Write at once for descriptive folders and literature.  
Milker Dept. A-3  
UNITED ENGINE CO.  
Lansing, Michigan.

**Flies rob you of 1/3 of your MILK production**

Think of 10-20 per cent of your dairy income lost because of the torment of flies. Write now and see for yourself how well it would pay you to use

**SO-BOS-SO**

A success for 25 years  
Easy and quick to use—guaranteed not to gum the hair or taint the milk. A fine mist spray—spreads quickly and stays. Very economical. Also valuable for poultry, hog pens and horse stables.  
SPECIAL 1 gal. can and qt. tin spray for applying—\$2.25. Satisfaction guaranteed or money refunded.  
You will fight the flies and gnats that torture your horses and cows, if you will write today for our So-Bos-So Moremilk folder. It's an eye opener—it's FREE  
H. E. ALLEN MFG. CO., Inc., 53-55 State St., Carthage, N.Y.

**Silo Fillers and Feed Cutters**

Send for attractive proposition to early buyers  
Mfg. by Silver Mfg. Co. Box 508 Salem, Ohio  
Distributed by Indiana Silo & Tractor Co., Anderson, Ind.

**EQUIPMENT FOR DIGGING**

**MARL**

out of Lakes or Marshes

If you want to dig 25 or 500 yds. per day we can furnish you the equipment at a price that will suit you.

American Mfg. & Engineering Co.  
Kalamazoo, Michigan.

**Send No Money**

Sent FREE

30 Days' Free Trial  
No deposit—No notes to sign—No obligation to buy! You try the famous imported Harp Separator entirely at my risk. You alone are the judge and if not thoroughly satisfactory return it at my expense.  
The Standard in Europe For More Than 22 Years  
You get the closest-drawing, earliest-invented, easiest-to-clean separator ever built. Has replaced hundreds of thousands of machines in England, France, Germany, Belgium and Denmark. Quality at Bargain Prices! Why? Because European labor and materials are cheaper, we build in tremendous quantities, and sell direct to you. From \$35.00 up. Also on easy monthly payments. Write today for prices and descriptive folder.  
W. C. MULLER, Pres.  
THE HARP SEPARATOR CO.  
Dept. 310 45 S. Dearborn St. Chicago

10 MONTHS TO PAY

**DAIRY IMPROVEMENT WORK**

CONTINUOUS TESTING GIVES THE BEST RESULTS.

MANY cow testing associations in Michigan are nearing the end of the first year's work. Experience in other associations proves that reorganization and continuing of the work pays over a long period of years. This is shown through the work of the Newaygo Association and the East Allegan Association, and similar instances could be given regarding the Jackson, Kent, Van Buren and other cow testing associations.

Now, along comes the record from the Kalamazoo Cow Testing Association for the year March, 1923, to March, 1924. The following figures point out the improvement resulting when continuous testing is carried on:

	1921-1922	1922-1923	1923-1924
Production milk	7,064	6,959	7,450
Production fat	305	310	323
Poor cows sold	64	55	86
Sires bought	5	9	18
Cows bought	4	7	15

The associations that are completing their year in the coming months would do well to carefully consider plans to continue cow testing association work. The smallness of the investment involved in having the definite knowl-

ers from unscrupulous dealers who have gone to New York state and bought cattle, shipping them to New Jersey, using a Michigan health certificate to sell them with so as to obtain better prices.

This is a rare chance for Michigan dairymen to capitalize something really worth while in letting the rest of the world know what advantages there are in buying Michigan cows. In the last twelve months, Livingston county shipped 107 carloads of dairy cattle to other states, eighty-three of them going to New Jersey. Nearly every carload was bought by people who had bought in Michigan before, so it certifies that they are satisfied customers.

**MILK INCREASES WEIGHT.**

TESTS conducted under the direction of the Dairymen's League in New York state show the value of milk in increasing weight in school children. Two thousand pupils were under observation. Fifty-nine per cent of these were underweight at the time the milk-feeding tests began. This was in October, 1922. At the end of the school year, the following June, the

**High Fat-Producing Cows**

THE following table points out the five highest fat-producing cows in the particular age class designated, in all of the cow testing association work in the state of Michigan during the month of February, 1924.

Mature Cows—Five Years and Over.

Association and Owner.	Breed.	Date.	Fresh.	Milk.	Fat.
Washtenaw-Saline, W. L. Rundel	...PB H.	11-28-23	2,651.0	**98.1	
Genesee No. 3, D. D. Aitkin	...PB H.	11-30-23	2,077.0	**87.2	
Clinton-Shiawassee, J. Bowlby	...PB H.	.....	2,294.0	*87.2	
Washtenaw-Saline, W. L. Rundel	...PB H.	1-26-24	2,987.0	86.8	
Ingham-Leslie, Whitney Brothers	...PB H.	1,18-24	1,804.8	86.6	

\*Three times a day milker. \*\*Four times a day milker.

edge regarding each cow and the herd, is an incidental factor while the definite value received through the cow testing association work in varied activities is a big factor for greater profits. As the production of a cow is doubled, profits increase three times. As production is trebled, profits increase six times.

**MICHIGAN CATTLE ARE POPULAR.**

DAIRYMEN of Michigan have many things in their favor. The most important phase favoring them is the small percentage of tuberculosis. This is speaking particularly for those counties doing tuberculosis area work. Other reasons being the number of good producing cows available in these counties. The result of good sires and cow testing association work which has been growing so rapidly recently is another real foundation builder.

Bull associations, such as Livingston county farmers organized in the past twelve months are going to mean much to the breeders of the county. In questioning a cattle buyer from Allentown, N. J., just recently who had purchased his seventeenth carload of grade and pure-bred Holstein and Guernsey cows in the last twelve months, he stated his main reason for buying here was from a tuberculosis standpoint. He mentioned the large number of cows that are reacting in their herds and he wants to replace them with real clean stock that has a reputation of being capable of producing as well.

The state of New York, it was stated, has just passed a new law requiring that every cow brought into the state must be accompanied by an individual health certificate. This was found necessary to protect the farm-

percentage had been reduced to twenty-two. In December, or a year and two months after the milk feeding began, only seventeen per cent of the pupils were underweight. The teachers report improvement, both in the physical condition of the pupils and also in their class work as a result of a milk diet.

**FREE TO DAIRYMEN.**

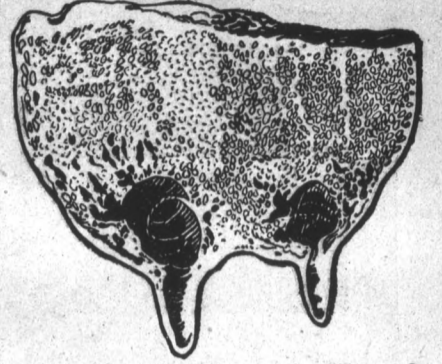
EVERY dairymen in the state who is, has been, or possibly may be connected with a cow testing association should take out his pencil and immediately write to the Extension Division of the Michigan Agricultural College, East Lansing, for the March Cow Testing Association Bulletin, telling how the dairy department of the college has arranged to publish a "Record of Performance."

As noted in an editorial in this journal, this service will permit the recording of from twelve to fifteen per cent of the best cows in the Michigan cow testing associations, regardless of their being pure-breds or grades. It will give a higher commercial value to the good cows in 1,500 and more herds now under the eye of Michigan's seventy-five cow testers. While cow testing sentiment has been moving strongly the past two years, this added service should still further increase the popularity of the work among our cow owners. The bulletin is free.

Old sour cream often shows a higher percentage of butter-fat not because the amount of butter-fat has increased, but for the reason that some of the water has evaporated.

Clean utensils and plenty of fresh water will be found in every recipe for growing healthy calves.

**Thousands of Reasons here for BAG BALM**

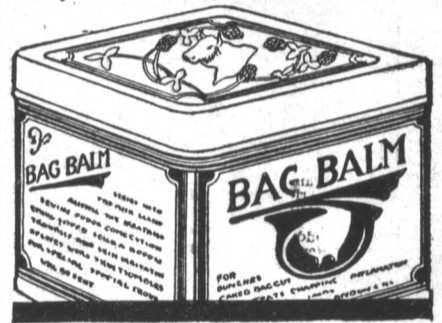


THE structure of a cow's udder and teats is made up of thousands of tiny cells and ducts. Each cell has its part to perform in contributing to a healthy, full milk-flow.

Any injury not quickly and properly healed interferes with the "letting down" of the milk and may result in permanently congested tissues.

The use of Bag Balm for injuries to udder or teats is a guarantee of quick and proper healing. It penetrates deeply, stimulates circulation, cleanses and protects the wound. Fine for cuts, chaps, bruises, scratches, inflammation. A sure relief for Caked Bag and valuable aid in treating Bunches and Cow Pox.

Large 10-ounce package 60c, at feed dealers, general stores and druggists. Send for free booklet, "Dairy Wrinkles." Dairy Association Co., Inc., Lyndonville, Vt.



**PERMANENCE**

"HOOSIER SILOS" are proof against wind, fire, frost and decay. Reinforced with every course of tile with galvanized steel cable, equipped with continuous doors with double sealing clamp. Doors set flush with inside wall allows even settling of ensilage. HOOSIER silos also in wood, same splendid value. Territory open for good salesmen. Get our prices before buying. HOOSIER BLDG. TILE & SILO COMPANY, Dept. M-99, Albany, Indiana

**I Will Condition a Horse or Cow in Twelve Days**

Put flesh on its bones. Give it life and vigor. Can add fifty per cent to looks and value. Satisfaction guaranteed or no pay. Send postal for free offer.  
P. M. FAUST, BRYN MAWR, PA.

**MUSKRATS**

Write for price and shipping tags. None better.  
Lake Land Fur Exc., Salem, Mich.

**INDIANA SILO**

and Metal Corn Crib

THOUSANDS of farmers have paid for their farms on money made by storing their silage in Indiana Silos. More than 80,000 are now in use. They pay for themselves in a short time—and build up your soil.  
Save your dry grain and mature corn in an Indiana Metal Crib. Strongly built, thoroughly ventilated—it is a permanent improvement on the farm. Write today for our special low price early buyers' proposition. Just a few Agencies left.  
The Indiana Silo & Tractor Co. Anderson, Ind. Dept 47





## Spring is Here

All out-of-doors is filled with the bleat of the lamb, the bawl of the calf, the grunt of the pig, and the whinny of the colt.



Youth asserting itself everywhere! Keep their bodies healthy, and stomachs full. You can then count on good growth—quick development—and begin to cash in on them before the summer-end.

Let **DR. HESS STOCK TONIC** be your insurance policy

against disease, insurance of good appetite, good digestion. It keeps the worms away.

Then, there are the mothers:

Your COWS need it for its system-toning, bowel-cleansing, appetizing effects. Puts them in fine condition for calving.

Your BROOD SOWS will be relieved of constipation and put in fine fettle for farrowing.

Excellent for MARES in foal—and EWES at lambing time.

It makes for good appetite, and more milk to nourish the offspring.

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

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

Except in the far West, South and Canada.

Honest goods—honest price—why pay more?

**DR. HESS & CLARK Ashland, O.**



I spent 30 years in perfecting this Tonic. GILBERT HESS M.D., D.V.S.

**Dr. Hess Dip and Disinfectant**  
For Sheep Ticks - for Hog Lice - for Health

### BREEDERS' DIRECTORY

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

**Registered** Aberdeen-Angus 6 heifers, 5 bulls from eight to fourteen months. Best of breeding. The growthy kind that make good. Reasonable. Inquire of F. J. Wilber, Clio, Mich.

**Reg. Guernseys** Two Nice Bulls, nearly ready for service. Special terms if desired. J. M. Williams, North Adams, Mich.

**Guernseys** 2 cows fresh, 3 heifers, 3 bull calves. Dr. Baker, 4800 Fort St. West, Detroit, Mich.

**Guernseys** Want some Reg. Heifers or young cows, might buy whole herd, give particulars. Guernsey, Care of Michigan Farmer, Detroit.

### LAKEFIELD FARM

Owners of Michigan's Grand Champion Holstein Bull, Count Veeman Segis Piebe No. 336,756.

#### Offer For Sale

A Son of this Grand Champion, ready for service from a 23-lb. four-year-old dam. Also a young son of "Count" born December, 1923, from a well-bred dam.

#### Special Offering

Three sons of Dutchland Konigen from two-year-old daughters of King Segis Pontiac Konigen and Dutchland Creamelle Korndyke Ladd. These dams were purchased by us as foundation heifers and have made two-year-old records from 20 to 23 lbs., and will be developed by us. All of these should make thirty-pound cows in a year or two.

Any reader of Holstein Journals knows the wonderful breeding of Dutchland Konigen and the wonderful records being made at Dutchland Farms. Any one of these young bull calves will do some Michigan breeder a world of good, and the prices are low, probably only a fraction of what Dutchland Farms would be able to get for the same animals.

Write **OSCAR WEBBER, The J. L. Hudson Co., Detroit, Michigan.**

### HEREFORDS

Registered Breeding cattle, T. E. Tested at practical prices for production of Hereford Baby Beves profitably, all ages. **T. F. B. SOTHAM & SONS** (Herefords since 1859) St. Clair, Mich.

### Michigan State Herds

Offer a yearling son of Echo Sylvia King Model, sire of 34 A. R. O. daughters, including a 32-lb. Junior 3-year-old. His dam is a 24-lb. Junior 3-year-old daughter of a 32-lb. cow with a record of 877 lbs. butter and 21,340 lbs. milk in ten months.

A dark colored, well grown bull, ready for light service. His seven nearest dams average 30.9 lbs. butter in 7 days.

Send for pedigree of Ear Tag No. 500

**Bureau of Animal Industry, Department C Lansing, Michigan**

### HOLSTEIN-FRIESIANS

I have more females than I can house or pasture and which I wish to dispose of, and I will give worthwhile persons who desire to engage in pure-bred live stock breeding an opportunity to make these animals pay for themselves.

I also have three bull calves from Maple Crest Korndyke Hengerveld and King Oma, breeding whose dams in each instance have better than 30 pounds of butter in seven days. These calves are of exceptionally fine type and suitable for heading any herd. They will be ready for service early in the fall and should be in good hands.

I believe any man of good intelligence who is willing to work can take pure-bred Holstein cows of good production and make them pay for themselves in two years and at the same time pay for all the feed they have had, and I am willing to bank on it in selling these animals.

**D. D. Aitken, Flint, Michigan**

### HEREFORDS

Bulls, Heifers and Cows with Calves by side. Most popular strains. **Allen Bros., 616 S. Westnedge St., Kalamazoo, Mich.**

**FOR SALE** Jersey bulls ready for service. Accredited herd. Would take a bankable note. **SMITH AND PARKER, R. 4, Howell, Mich.**

**For Sale** Yearling Bull of the famous Golden Tycoon Strain—Sire three times to Golden Tycoon 19240 (548), Sire of 34 besides to Golden Fern's Grey Prince, Sultana's Oxford Lass, the latter Grand Champion Cow National Dairy Show 1909. Dam by Foxhall's Champion 124108 (622), Sire of 14, 2nd Dam R. of M. daughter of Oxford Daisy's Flying Fox 83284 (348), Sire of 39, 3rd Dam 686 lbs. 4 oz. butter in 1 year, daughter of Foxhall's Jubilee 76944 (328), sire of 30. **LeRoy Kuney, Adrian, Mich.**

## Livestock

### PIGS IS HOGS.

YOU know, folks, some of us are raising a lot of pigs this year. We don't exactly mean to, but we can't help it. Over on Francisco Farm the pigs are making regular hogs of themselves and just about taking possession.

We had planned, like most everybody else, to sell all but a few of our best sows, and raise only about half as many pigs as usual this season. But there must be two parties to every transaction, and, so far, there is only one of us who is ready to deal. If there is anything in the theory that the time to raise hogs is when no one else wants to, then this surely is going to be a hog year.

On account of the prevailing market situation and general farm conditions, which call for the strictest economy, we have wintered our brood sows about as unscientifically as the law allows. They have their semi-daily feed of ear corn and good clean water on tap, and have foraged freely over the spacious yards and roomy basement where the breeding herd of cows, heifers and calves are kept and fed. They have grown fairly well, gotten lots of voluntary exercise at the call of the cattle, or involuntary exercise at the urge of an effective horn, and they have been filled with succulent silage and lots of clover and whatever else they could find in a cattle yard.

We had some slight misgivings as to whether the pigs would come strong and active or not, but we did not much care as the values offered little inducement to put forth any special effort, or go to much expense. A day or so before the families were due to arrive, or, in some instances, after the sows began to make their nests, they were placed in the boxes away from the other stock and left alone until we went to count the pigs. And it has just about kept us busy counting. There are more than half a hundred of them to-date from half the sows, and the hired man says "you couldn't kill 'em with a club."

There is a ten-acre field of alfalfa adjoining the barn and we have made up our mind to let them fill it if they want to. We will try and dig up enough money to keep the trough filled with water and furnish an ear of corn occasionally for them to chase around, and along about next fall we will look for hogs to be so high in price that raising them in 1924 will be most all profit.—P. P. Pope.

### CATTLE ON FEED DECREASES.

THE number of cattle on feed for market in the principal cattle-feeding states is estimated at 95.5 per cent of the number on feed a year ago. The largest percentage of decline was in the feeding states east of the Mississippi River. These run ninety-two per cent of a year ago, while the states to the west have about ninety-seven per cent of those on feed in 1923. Michigan's percentage is eighty-five, as compared to last year.

### FEEDING NOTES.

Feed the ewe slightly for three or four days after lambing, when she can again be placed upon full feed.

Do not give the breeding ewes silage or root crops when they are on soft watery pasture.

Salt should always be available to the sheep, for when fed at intervals the animals are apt to eat too much for their good health.

Attend to the education of the young pigs. When about three weeks old they should have their first lesson at eating a little shelled corn from a trough. Make a creep so they can get away from the mother for their ration of corn.

## "JUST JERSEYS"

Quality plus Economy  
**Oxford Sultan of Oaklands**

### Herd sire

Winner of Bull and Progeny prize, Island of Jersey, 1920

Our herd represents the best of quality from type and blood-line stand-points, and the most economical as a milk producing dairy breed.

## THE OAKLANDS

Arnold H. Goss, Prop.  
Ann Arbor, Mich.  
R. F. D. 5

## Brookwater Jerseys

Bull calves for sale. Majesty breeding. Herd tuberculosis free. Come or write. Brookwater Farm, Ann Arbor, Mich.

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

15 Cows, 4 bulls from R. of M. Cows. Chance to select from herd of 70. Some fresh, others bred for fall freshening. Colon C. Lillie, Coopersville, Mich.

## THE ZIP HOME

for Dual Purpose Shorthorns

Herd headed by Prince Albert 8th, weight 2,700. Sire—Imp. Prince Albert 4th, out of Imp. Sprightly Millicent R. M. 13,517 lbs. Milk, 472 lbs. B. F. Dam—Imp. Violet 18th, weight 1,700 lbs., and R. M. of 7,579.6 lbs. milk and 295 lbs. B. F., with 1st calf. Bull Calves for Sale from 4 to 10 mos. of age. Red, White or Roan. Also a few heifers bred to our Jr. Herd Sire, Iroby Model III., a son of Flintstone Model. Eight miles from Lansing.

**Ira P. Zimmerman, Dimondale, Mich.**

## Francisco Farm Shorthorns and Big Type Poland Chinas

Now offering three good bulls and a few choice gilts bred to Elvetrand Revelation 2nd. P. P. Pope, Mt. Pleasant, Mich.

## BIDWELL SHORTHORNS

Revolution Jr. 573938 heads accredited herd 28017. Now offering 2 January roan bull calves of exceptional merit, reasonably priced. **BIDWELL STOCK FARM, Box D, Tecumseh, Mich.**

**Milking Shorthorns:** Wildwood farm will send five young cows and heifers and two bulls to the N. W. Ohio breeders, sale at Napoleon, June 18th. All interested urged to attend. Write for catalogue. **Beland & Beland, Tecumseh, Mich.**

**When In Need** of Red Polled Bulls, Cows or Heifers. Buy from Michigan's leading herd, owned by Westbrook Bros., Ionia, Mich.

**FOR SALE** Herd of milking shorthorns, 3 cows, calves by side, 3 coming fresh. 2 yearling heifers, and herd bull. Price right. **E. H. KURTZ, Mason, Mich.**

**SHORTHORNS** 3 Bulls, one ready for service. Two 8 months. Write for Prices. **BARR & CURTISS, R. No. 2, Bay City, Mich.**

### HOGS

## DUROC-JERSEYS

We pay express charges to your station

Never before have we been able to offer such Great Bargains in Duroc-Jersey hogs, any age or sex. This is the home of TOPMAST SENSATION, premier sire of the state.

Write us your wants.  
**LOEB FARMS**  
Virgil Davis, Supt. Swine  
Charlevoix, Michigan

## Registered Durocs

**FOR SALE**—Young boars and gilts bred from the best herds in Michigan and Ohio, at reasonable prices and fully guaranteed. **W. E. Bartley, Alma, Mich.**

**FOR SALE** Duroc Jersey Fall Boars of the Heavy-boned, low-down type. **Chas. A. Bray, Okemos, (Ingham Co.), Mich.**

**D**UROC fall and spring boars of the best breeding and quality, at prices to sell. Fall pigs at bargain prices. **W. C. Taylor, Milan, Mich.**

**Duroc Jerseys** Extra choice bred gilts at reasonable prices. **CAREY U. EDMONDS, Hastings, Mich.**

**DUROCS** Stock for sale at all times, write for breeding and prices. **F. J. Drott, Monroe, Mich., R. No. 1.**

## DUROC SPRING PIGS

Fine thrifty fellows at 8 wks.; boars or sows. Orders booked now in advance; an economical way to get into thoroughbred stock.

Every Pig guaranteed satisfactory when you receive it. Send for description, photos and breeding. **STATE FARMS ASSOCIATION, Kalamazoo, Mich. Member Michigan State Farm Bureau**



## Certified White Leghorn CHICKS

### Hollywood Mated at the RIGHT PRICE



Barron English type; from stock certified by Michigan Baby Chick Association. Sired by Hollywood males whose dams had records from 260 to 290 eggs in a year. Our own rural strain was bred from Barron birds; is carefully culled and type tested.

**Order From These Prices**

Hollywood Mated	.....\$15 per 100
Rural Mated	.....\$13 per 100
Anconas, Grade A and B	.....15c and 14c each
Brown Leghorns, Grade A-B	.....14c and 13c each
Barred Rocks, Grade A and B	.....18c and 17c each

Large Illustrated Catalog on Request

**RURAL POULTRY FARM**  
Box 109-A ZEELAND, MICH.

### Guaranteed Pure-Bred Chicks and Pullets

Special Star Mating Aristocrat Strain Barred Plymouth Rocks

Breeding Stock, Chicks and Eggs. Only a limited number of these. Write for prices.

Barron S. C. White Leghorns. Sheppard's Strain Anconas. Special Star Matings.

Per 100	500	1000	
April	\$16.00	\$77.50	\$150.00
May	15.00	72.50	140.00

Grade "A" Matings.

Per 100	500	1000	
April	\$13.00	\$62.50	\$120.00
May	12.00	57.50	110.00

Utility Bred-to-lay Rocks.

Per 100	500	1000	
April	\$16.00	\$77.50	\$150.00
May	15.00	72.50	140.00

Pullets of Quality at Moderate Prices.

6 Wk.	10 Wk.	3 Mos.	4 Mos.
50c ea.	\$1.00 ea.	\$1.25 ea.	\$1.50 ea.

Reference: Two Banks. 100 per cent live delivery. Don't wait. Order from this ad or write today. FAIRVIEW POULTRY FARMS, R. 2, Box E, Zeeland, Michigan.

### BABY CHICKS

Strong healthy chicks. Flocks culled by M. A. C. graduate.

50	100	500	
E. W. Leghorns, Tom Barron Strain, Anconas.	\$7.00	\$13.00	\$60.00
Barred Rocks & R. I. Reds	8.00	15.00	72.00

Order from this ad and get your chicks at once, or send for literature. Reference: McLachlin State Bank, Petersburg, Mich. PETERSBURG HATCHERY, Petersburg, Mich.

### KILBOURN'S ROYAL STRAIN

Baby Chicks and Eggs. Grade A stock produced by us on our own farm. Rocks, Wyandottes, \$18.00 C. Combs, \$18.50 C. Leghorns \$15.00 C. Corns \$12.00 C. Guaranteed 100% live delivery. Vigorous and true to name. Get the best. Custom hatching our specialty.

KILBOURN'S HATCHERY & POULTRY FARM  
Box 24 Flint, Michigan

### Barred Rock Baby Chicks

We hatch only Barred Rock Chicks from choice selected stock shipped by prepaid parcel post to your door, satisfaction and alive delivery guaranteed. Circular on request.

**THE KAZOO HATCHERY CO.**  
R. R. 3 Kalamazoo, Mich.

### BEST CHICKS at Low Prices

Send for free catalog describing best bred chicks in the country. Tom Barron and Tanager White Leghorns, Michigan's Champion Winter Laying Barred Plymouth Rocks and S. C. R. I. Reds. No better chicks anywhere at any price. Satisfaction and 100 percent live delivery guaranteed.

Brunner-Fredrickson Poultry Farm, Box 20 Holland, Mich.

### STURDY CHICKS

From high grade, heavy egg producing strains of S. C. White Leghorns, S. C. Rhode Island Whites and White Wyandottes. All from pure bred, healthy, vigorous stock, carefully culled and tested to insure your getting chicks that will be easy to raise, develop rapidly and become heavy winter layers. Shipped prepaid parcel post. Write at once for valuable illustrated catalog and latest price list.

COLUMBIA HATCHERY, HOLLAND, MICH.

### White Leghorn Baby Chicks

TANCRED-BARRON 200 to 300-egg bred line. Wonderful layers of large white eggs that bring premium prices. Over 2,000 selected breeders on free range. Get quality chicks from these tested layers, mated to the choicest pedigreed sires, 11% cost and up. 100 percent live arrival guaranteed by prepaid parcel post. Write at once for valuable illustrated catalog and latest price list.

J. PATER & SON R. 4D, Hudsonville, Mich.

CHICKS BARRED ROCK. English Strain White Leghorns and Brown Leghorns. Guarantee full 100 per cent alive. Free Delivery. Hillview Poultry Farm & Hatchery, C. Boven, Prop., R. 12, B. F. Holland, Mich.

### MACOMB BREEDERS THROW HAT IN THE RING.

THE largest membership list of any county Holstein association is found in Macomb county. She boasts of over seventy paid-up members. This is a remarkable showing when you consider that only a little over one month ago Macomb breeders were unorganized.

Macomb is not one of the largest Holstein counties—her pure-bred census of the Black-and-Whites would probably total around 1,000 head. But some of the largest and best herds are located in this county: Detroit Creamery Company; E. M. Bayne; J. B. Jones, these Macomb county herds are well known throughout the state.

William Schoof, of Washington, is president, and Jack Harvey, of Utica, is secretary of this progressive organization. The plans for the year call for work along calf club lines and showing cattle at the fairs.

Program for State Holstein Association.

At a meeting of the board of directors held Saturday, April 5, State Secretary J. G. Hays was authorized to direct association activities along the following lines:

1. Build up the county sales manager plan as an aid to selling more cattle and at increasing prices. Eleven counties now have each a sales manager. It is through these men that sales are made throughout the state. Eastern buyers from New Jersey, Connecticut, Delaware and New York, working partially through Michigan county sales managers are exporting large numbers of Holsteins, particularly grades. The problem before the state workers is to get some of the southern and western trade swung into the Wolverine state.

2. Build up membership in the State Holstein Association, working with units on a uniform joint membership plan. Michigan ranks fifth as to numbers of pure-bred Holsteins, with approximately 40,000 head. These are owned by about 2,500 breeders. With proper support from these breeders this state can maintain her proper prestige as a Holstein center.

3. Publicity. Use every means available to boost Michigan Holsteins in the state and outside the state. Breeders have a first-hand chance to help themselves and the breed by sending real news items out of their experience, to State Secretary Hays or to such papers as The Michigan Farmer.

4. Assist county associations to tackle definite local projects. The live county units are those which choose projects such as fostering calf club work, showing at fairs, better bulls, cow testing association work, etc.

5. Bull work. The work along this line will embrace a few county-wide campaigns to displace scrub bulls with medium priced pure-breds. Another phase of the task will be to form small bull clubs, a club consisting of near neighbors who collectively buy a better sire than any one of them would feel able to buy alone.

This is an ambitious program of real merit if carried out. Every Holstein breeder can help put it over. Joining with his fellow breeders in county and state associations is the best tangible evidence of a breeders' willingness to help himself and his favorite breed.

### CLAIMS WORLD BUTTER-FAT RECORD.

A MILKING Shorthorn owned in New South Wales, Australia, is designated as the champion dairy cow of the world by producing 29,755 pounds of milk and 1,395 pounds of butter-fat in 300 days in an official test. She was milked three times a day.

Alum added to a lime whitewash will prevent the whitewash from rubbing off.

### MANY EGGS GOING TO COLD STORAGE.

THE movement of eggs in cold storage have been heavier than usual, the holdings on April 1, being 569,000 cases, compared with 453,000 cases on April 1 last year.

### LOANS OF INTERMEDIATE CREDIT BANKS.

A CONSOLIDATED statement of the condition of the twelve federal intermediate credit banks on March 31, shows direct loans of \$28,313,432 and rediscounts of \$14,581,920. The Baltimore bank has made the largest direct loans, \$7,500,000, while the Houston bank has the largest rediscounts, totaling \$3,568,149.

Wool growers are urged to use only paper twine in tying fleeces for market. Other twines contain fibers that mix with the wool and reduces the value of the cloth made from such wool, since these fibers cannot be removed. That from paper, however, can be taken out in the manufacturing process.

The supply of farm labor in the United States is estimated at ninety-two per cent of the demand, as compared to eighty-eight per cent a year ago.



## FOXES

### RUGGED PROLIFIC BREEDERS

For the man who wants a strong, sturdy productive breed of Silver Foxes. For the shrewd fox buyer or beginner. For the man who is building for the future as well as the present. It is for these men to look into the merits of the Camp Roosevelt Strain. For the man who must make his dollars count, one of our purchase plans is sure to fit. Ask for folder, it contains much that you will want to know.

Ransford, Peterson, Kelly Co.,  
R. F. D. 1, Box M. F. Muskegon, Mich.

## \$7,500 - \$15,000 a year

Business of your own. Sell feed—direct from mill. Cuts cost of feeding; more milk profit. Exclusive territory. Feed cannot be duplicated for quality. Users enthusiastic over results; they keep buying. Business comes to you. Wonderful proposition. Write quick.

Old Reliable Milling Co.,  
De roit, Michigan

### BE A VIOLINIST \$9.95

Genuine full size Strad model violin and bow and self instructor. \$9.95 Postpaid.

JOSEF DEULIN, Violin Maker  
1414 BROADWAY, DETROIT, MICH.

### POULTRY

Highest Quality Chicks Can ship at once. Heavy broiler chicks 12c; Barred Rocks or Reds 15c; Anconas 14c; Black Minorcas, 15c; White, Brown or Buff Leghorns, 12c; White Rocks 15½c; White or Silver Wyandottes, Buff Orpingtons, 10½c. May Chix ½c less each. Extra selected chicks, built directly from contest winners, 4c per chick more. Add 30c if less than 100 wanted. Hatching eggs. Catalog. Good reference. Beckman Hatchery, T.M.F., 26 Lyon St., Grand Rapids, Mich.

### Leghorn B-A-B-Y---C-H-I-X Heavies

Black, Brown, Buff, White, Brahmas and Orpingtons, Anconas and Minorcas, Reds, Rocks, Wyandottes, Allegan Hatchery on Highway No. 89, Wyandotte, Mich. 1924 price list. Crescent Egg Company, Allegan, Mich.

## Berrien County Guernsey Breeders' Ass'n.

### Fourth Annual Consignment Sale!

#### Eau Claire, Michigan. May 6, 1924

12 miles N. of Niles, Mich., 15 miles S. of Benton Harbor, Mich.

40 Purebreds and Grades 40

Many young females of Excellent Type and Breeding

Several fine young bulls

For catalogues address

**EARL HEMINGWAY, SODUS, MICHIGAN**

## DAY OLD CHICKS

### HOMESTEAD FARMS

Pure bred poultry, bred and culled for years for egg production.

Barred and White Rocks; R. C. and S. C. Reds; White Wyandottes; White and Buff Orpingtons; Anconas; American and English White Leghorns; Brown and Buff Leghorns.

This is practical production stock that will make you money. Send for description and price list, and note egg records reported by our customers.

### ADVANCE SALE PULLETS - COCKERELS

Eight weeks and 3 mos. Pullets and Cockerels in the different breeds. Send for New Pullet Circular.

STATE FARMS ASSOCIATION  
307 N. Rose St. Kalamazoo, Mich.  
Member International Baby Chick Association  
Member Michigan State Farm Bureau

## SUPREME CHICKS

LAYERS! That's what you want. Standard Chicks are from just that kind of flocks. Our strain of Supreme Laying White Leghorns is the result of our many years experience, breeding and selection. They are large sized, long deep wedge shaped bodies, keen alert eyes, large lopped combs. The kind you will be proud of and eventually buy. Shipped postpaid. 100% Live delivery guaranteed. Illustrated catalog sent free.

STANDARD HATCHERY, Box A, Zeeland, Mich.

## QUALITY CHICKS

Strong Vigorous, Pure-Bred. The kind that live to produce a profit. From heavy producing English S. C. White Leghorns, (Barron Strain), carefully culled and mated to pure-bred males. Priced 10c and up.

Price List Free. Postage and live delivery guaranteed. Reference: People's State Bank. LAKE BLUFF HATCHERY, R. No. 1, Holland, Mich.

### CATTLE

## Dispersion Sale

I will sell at Auction my entire herd of Pure-Bred Holstein Cattle Tuesday, April 29

Commencing at 12 o'clock

At Farm one mile South of Shields, Paines Station, Southwest of Saginaw. Including 10 Cows; 3 Heifers, will be fresh before day of sale; 2 Heifers which are bred; 5 Heifers not bred; 2 Grade Holsteins; Bull 2 years old, a grandson of Carnation King Sylvia, bred by John C. Butch of Grand Rapids. This is one of the best herds in the State of Michigan. Will also sell 7 Duroc Jersey Shoats; 1 Duroc Jersey Boar, Registered.

Terms can be arranged the day of sale.

RALPH F. PAINE, Proprietor, Saginaw, W. S.  
D. T. PACKER, G. H. SUTHERLAND,  
FRED COTTON, Auctioneers.

### HOGS

\$10 for a Duroc Sow pig, farrowed in March, shipped in May. Express paid. Registered free. M. A. C. breeding. Write for pedigree. D. W. Sutherland, Gd. Ledge, Mich.

O. I. C's 15 last spring gilts due to farrow in April and May. Wt. 250 to 375. Also this spring's pigs. Otto Schulze & Sons, Nashville, Mich.

25 Reg. O. I. C. Sows, Bred for April and May Farrow. All Stock Shipped on Approval. Priced Right. Fred W. Kennedy, R. 2, Plymouth, Mich.

O.I.C's Sept. pigs. Sired by "Giant Boy," Senior Champion at West. Mich. State Fair, 1923. Milo H. Peterson, R. 2, Ionia, Mich. "Elmhurst Farm."

O. I. C's. A few choice service Boars and spring pigs either sex. CLOVER LEAF STK. FARM, Monroe, Mich.

L. T. P. C. Bred gilts. Fall pigs, either sex. A. A. Feldkamp, Manchester, Mich.

10 weeks' old pigs, either sex, from grandson of Great Orion Sensation and Scissors dams, priced to sell at once. Ralph Sherman, So. Haven, Mich.

Fall Pigs either sex, by the great Boar. The Wolverine. Priced reasonable. Best of dams. W. E. Livingston, Parma, Mich.

Hamp hire Bred gilts, spring and fall boars, at bargain prices. 12th year. Write your wants. John W. Snyder, R. 4, St. Johns, Mich.

### SHEEP

Breeding Ewes with lamb, in car lots at prices wool and lambs will much more than pay for them in 5 or 6 mos. Must move quickly. First come, first served. Don't ask for description unless you mean business. Geo. M. Witber, Marysville, Ohio.

### HORSES

Percherons Intending Buyers of Percheron Stallions, write me, have a list of 50 head. Price from \$350 up. None are far from Detroit. F. J. Sullivan, 550 King Av., Detroit.





**GRAIN QUOTATIONS**

Wednesday, April 23

**Wheat.**  
 Detroit.—No. 1 red \$1.12½; No. 2 red \$1.11½; No. 3 red \$1.08½; No. 2 white \$1.12½; No. 2 mixed \$1.11½.  
 Chicago.—May \$1.02½; July \$1.04½; September \$1.05½.  
 Toledo.—Cash \$1.10½@1.11½.  
**Corn.**  
 Detroit.—No. 3, 84c; No. 4 yellow 81c; No. 5, 75@77c; No. 6, 72@74c.  
 Chicago.—May at 77½@77¼c; July 78¾c; September 78.  
**Oats.**  
 Detroit.—Cash No. 2 white 55½c; No. 2, 53½c.  
 Chicago.—May at 46½c; July 43¾c; September 39¾c.  
**Rye.**  
 Detroit.—Cash No. 2, 70c.  
 Chicago.—May 65¼c; July at 67¼c; September 69c.  
 Toledo.—68c.

**Barley.**  
 Barley, malting 85c; feeding 80c.  
**Beans.**  
 Detroit.—Immediate and prompt shipment \$4.45@4.50 per cwt.  
 Chicago.—Navy \$5.10; red kidneys \$7.25.  
 New York.—Choice pea, \$5.40@5.50; red kidneys \$7.30@7.50.

**Seeds.**  
 Detroit.—Prime red clover cash at \$11.15; alsike \$9.50; timothy \$3.70.  
**Hay**  
 Strong.—No. 1 timothy \$23.50@24; standard and light mixed \$22.50@23; No. 2 timothy \$21@22; No. 1 clover at \$21@22; No. 1 clover mixed \$21@22; wheat and oat straw \$12.50@13; rye straw \$14@14.50.

**Feeds.**  
 Bran \$31; standard middlings \$30; fine do \$32; cracked corn \$35; coarse cornmeal \$34; chop \$30 per ton in 100-lb. sacks.

**Apples.**  
 Chicago.—Barrels, "A" grade Greenings \$4.50@5; Jonathans \$5.50@6; Spies at \$4.50@5.50; Baldwins at \$3.50@4; Steele Red \$4@4.50; Golden Russets, \$5@5.50.

**WHEAT**

After resisting the pressure of unfavorable conditions for three weeks, the wheat market finally broke out on the upper side of the narrow groove in which it has been moving. Improvements in the cash situation, spotted crop reports and speculative activity aroused by these conditions and the possibility of passage of the McNary-Haugen bill were factors.

But little wheat is arriving at northwestern markets and total primary receipts during the last month have been the smallest for any like interval in several years, necessitating larger bites from the visible supply at terminals. While the latter remains the largest at this season in at least fifteen years with the exception of 1919, good milling wheat is scarce and choice grades command distinct premiums right alone.

**RYE**

Rye crop prospects are not as bright as for wheat. The visible supply seems to have reached maximum at last and export sales were reported in the last few days.

**CORN**

Corn prices have had a strong rally with wheat but the outcome of present contending forces is uncertain. The natural tendency is for corn prices to average considerably higher during the summer months than in the spring. At the present time corn entering commerce is disappearing rather rapidly into consumptive channels in spite of a negligible demand from eastern dairy districts. The visible supply has been reduced 15 per cent in three weeks. On the other hand, receipts have increased in the last two weeks and are the heaviest at this season in several years, while sales to consuming sections do not seem to be making a corresponding gain. The visible supply can stand further reduction before dropping to normal size. The principal corn surplus states, with the exception of Iowa, are reported officially to have considerably more corn than a year ago. Some observers believe these reports are too high, however, and it will take the actual movement of corn during the next few months to settle the argument.

**OATS**

Oats seeding has been making up for the lost time during the last ten

days when weather conditions in most states were favorable. Oats prices are firm as the movement to terminate is small, demand is fairly broad and the visible supply has been reduced to 14 million bushels against 23 million bushels a year ago.

**SEEDS**

Early indications are for a light cloverseed crop as winter killing was severe in some of the important producing states. In addition, less than the usual amount was sown this spring because of unfavorable weather conditions and the high price of seed. Seed prices show little change from a week ago but alfalfa, sweet clover and alsike have been in stronger demand than red clover.

**FEEDS**

The mill feed market is somewhat firmer than a week ago with the best demand coming from northwestern points. Other sections show but little interest. Cottonseed and linseed meal prices are practically unchanged. The supply of oil meal is rather burdensome.

**HAY**

Seasonal dullness has entered the hay market but receipts are light at most points and prices of the best grades, particularly of timothy, are firm while poor hay is extremely hard to move. The alfalfa market is becoming sluggish and but little improvement is expected during the remainder of the crop year. Alfalfa is practically ready for the first cutting as far north as Oklahoma.

**POULTRY AND EGGS**

Receipts of fresh eggs at the four markets last week were the heaviest of the spring and reports from the country indicate record breaking arrivals in the next few weeks. Prices worked lower as most of the holiday requirements were satisfied and storing of the surplus supply was slow. Distribution of eggs into consumptive channels continues at a high rate. Storage holdings of eggs on April 1 were 569,000 cases. Although this shows a surplus over holdings on April 1, 1923, the movement so far this month has slowed down to such a degree that present holdings would probably reverse the comparison by a considerable margin.

Poultry prices are firm as the supply is limited and the demand excellent. Substantial premiums were paid last week on heavy fowls which were in demand for the Jewish holidays. Broilers are scarce and high.

Chicago—Eggs: miscellaneous, 20½@21c; dirties, 19½c; checks, 19½c; fresh firsts, 21¼@22c; ordinary firsts, 20@20½c. Live poultry: Hens, 25c; broilers, 50@60c; springers, 29c; roosters, 16c; ducks, 28c; geese, 16c; turkeys, 22c.

Detroit—Eggs: Fresh candled and graded, 22@22½c. Live poultry: Heavy springers, 28@30c; light springers, 24@25c; broilers, 60@65c; heavy hens, 29c; light hens, 24@25c; roosters, 17@18c; geese, 18c; ducks, 34@35c; turkeys, 28@30c.

**BUTTER**

Butter prices reached the lowest level since August, 1922, last week as dealers anticipated heavier receipts by offering price concessions. Buying was more active at the new low quotations and prices advanced slightly at the close of the week. Production is increasing as shown by receipts of the American Creamery Butter Manufacturers' Association and the Minnesota Cooperative Creameries. Quality of the butter now being received is not entirely satisfactory for storage so buying for that purpose has not begun to any extent. Storage holdings on April 1 of 7,830,000 pounds showed a surplus of 3,000,000 pounds over April 1, 1923, a depressing fact in view of the general expectation that production this year will be in excess of last year and that consumptive demand shows little chance of material increase. Domestic butter prices at the present level are too low to make foreign butter attractive.

Prices were: 92 score creamery butter: Chicago, 35½c; New York, 36½c. In Detroit fresh creamery in tubs sells for 35½c per lb.

**POTATOES**

Northern sacked round white potatoes are slightly lower than a week ago at \$1.25 to \$1.40 per 100 pounds in the Chicago carlot market. New York round whites are higher at \$1.75 to \$2 in eastern cities. The carlot movement is heavy but not as burdensome as in April, 1923.

**APPLES**

Apple prices are generally steady with a week ago, New York Baldwins selling at \$3.25 to \$4.25 per barrel in eastern markets. Michigan Baldwins are bringing \$4 to \$4.50 in Chicago with other desirable varieties 50 cents to \$1 higher. Total carlot shipments of apples are gradually decreasing but are still far ahead of this season a year ago.

**BEANS**

Bean prices declined to \$4.25 per 100 pounds for C H P whites f. o. b. Michigan and it is possible that some

sales were made at \$4.50, but they have strengthened to \$4.60. Deliveries from growers were light as only \$4.10 was offered to them, hence shippers were inclined to raise prices to a point where sales by producers would increase.

Actual buying by distributors is limited but numerous orders are in the market pegged at \$4.50. Usually the wheat country in the southwest begins to buy freely about this time of year.

**WOOL**

While the wool market lacks life, prices are well maintained at recent levels. In fact, values seem to have hardened slightly. Manufacturers show a little increase in interest at times and rush orders for goods have been reported, suggesting that stocks in distributors hands are light. The American Woolen Company is reported to be operating at an average of about 60 per cent of full capacity. Stocks of wool are well cleaned up abroad. Shearing the new clip is rapidly getting under way. Contracting in the west is slight as mills are not showing enough interest to encourage dealers to take hold freely and growers are firm as to prices so that much of the clip will probably be pooled or shipped to seaboard markets on consignment.

Boston—Ohio and Pennsylvania fleeces: Fine strictly combing, 56c; fine clothing, 48@49c; ½ blood strictly combing, 56c; ½ blood combing 48@49c; ¾ blood strictly combing, 55@56c; ¾ blood clothing, 49@50c; ¼ blood strictly combing, 52@53c; ¼ blood clothing, 44@46c; low ¼ blood strictly combing, 46@47c; common and braid, 43c.

The better class of Michigan, New York, Wisconsin and Missouri wool is 1 to 2 cents less.

**DETROIT CITY MARKET**

Though carlot shipments of Michigan potatoes have increased, the amount being brought in by farmers of Detroit area is less. Prices have remained fairly steady at 80@85c per bu. Nearly all Michigan apples, except Den Davis, are cleaned up, and sales of these are not heavy. The demand for local cabbage is a little stronger and carrots and parsnips have advanced in price some. Few onions are offered and have slow sale. After the strong Easter market for poultry, prices have dropped some, but the market is taking all offerings easily. The first local broilers of the season sold at 60c per lb. Eggs are moving a little slower with prices firm. Receipts of veal are light and sell slowly.

Apples, fancy \$2.00@2.50 bu; No. 1, \$1.50@2.00 per bu; cabbage \$1.50@2.00; carrots, fancy, \$2.25@2.50; No. 1, \$1.75@2.00; parsnips \$1.50@2.00; potatoes, 80@90c; eggs, wholesale, 25@26c; retail, 25@30c; old hens, wholesale, 28@30c; stags 23c lb.; broilers, 60c; veal 14@15c; onions \$1.25@1.50 per bu.

**GRAND RAPIDS**

Farmers were able to secure slightly higher prices for potatoes in Grand Rapids early this week, quotations ranging from 55@60c bu. The market eased on homegrown spinach, growers making slow sales at \$1.25@1.50 bu. in competition with shipped-in spinach. Yellow onions declined to 50@60c bu. and green onions were slower at 12½@15c doz bunches. Parsnips were scarce at \$1.50@1.75 bu. Record sales of hothouse leaf lettuce were made by the Grand Rapids Growers' Association last week and the light supply early this week made it possible to maintain prices at 17@18c lb. Radishes were easier at 75@80c doz bunches. Spring broilers are being offered at 48@53c lb. Other fowls were slightly easier, prices ranging from 20 to 25c lb. Veal was weaker under pressure of heavier receipts. The Easter demand failed to bring a bulge in egg prices and bids early this week fell to a range of 19@20c doz. Packing operations now are in full swing.

**COMING LIVE STOCK SALES.**

**Guernseys.**  
 May 6.—Berrien County Guernsey Breeders' Association, Eau Claire, Mich. Earl Hemingway, Secretary, Sodus.

**Holsteins.**  
 April 29—Ralph F. Paine, Saginaw, W. S.

**Live Stock Market Service**

Wednesday, April 23

**CHICAGO**

**Hogs.**

Receipts 23,000. Market slow; 5@10c lower. Light weights show most decline. Packers 10@15c lower. Bulk good and choice 250 to 325-lb. butchers \$7.30@7.45. Practical tops \$7.45. One load \$7.55. Packing sows 5@10c lower. Bulk \$6.65@6.85. Killing pigs 25c lower.

**Cattle.**

Receipts 8,000. Market beef steers and fat she stock dull to 25c lower. Early top matured steers \$12.25. Best yearlings hold around \$11.00. Bulk steers \$8.25@10.50. Light yearlings, bulls, weak to 15c off. Other classes mostly steady. Bulk vealers to packers \$8.00@9.00. Light kind downward to \$7.50.

**Sheep and Lambs.**

Receipts 10,000. Market slow. Few early sales fat lambs look around 25c lower. Sheep 50c lower. Bulk heavy weight fat clipped lambs to outsiders \$14.75. Few good woolled lambs \$15.75. Prime clipped ewes \$8.75. Medium culled kind \$8.00. Spring lambs \$17@22.00.

**DETROIT**

**Cattle.**

Receipts 422. Market common cull grades 25@50c lower than last week. Others steady.  
 Good to choice yearlings, \$ 9.00@10.00  
 Best Heavy steers ..... 8.25@ 9.25  
 Handyweight butchers .. 7.50@ 8.50  
 Mixed steers and heifers 7.25@ 7.75

Handy light butchers .... 6.75@ 7.25  
 Light butchers ..... 6.00@ 6.50  
 Best cows ..... 5.50@ 6.50  
 Butcher cows ..... 4.00@ 5.00  
 Cutters ..... 3.00@ 3.50  
 Canners ..... 2.50@ 3.00  
 Choice bulls ..... 5.00@ 6.50  
 Bologna bulls ..... 4.50@ 5.25  
 Stock bulls ..... 3.75@ 4.50  
 Feeders ..... 6.00@ 7.00  
 Stockers ..... 5.25@ 6.50  
 Milkers ..... \$ 45@ 85

**Veal Calves.**

Receipts 850. Market very slow; 50c@1.00 lower.  
 Best ..... \$11.00@11.50  
 Culls and heavies ..... 5.00@ 8.00

**Sheep and Lambs.**

Receipts 107. Market steady.  
 Best lambs ..... \$14.00@14.50  
 Fair ..... 13.00@13.50  
 Light to common ..... 8.00@ 9.00  
 Fair to good ..... 9.00@10.00  
 Culls and common ..... 3.50@ 5.00

**Hogs.**

Receipts 3,143. Market is 5c lower.  
 Mixed ..... \$ 7.60  
 Pigs ..... 6.25@6.50  
 Roughs ..... 6.25  
 Yorkers ..... 7.40@ 7.60

**BUFFALO**

Receipts of cattle, 5 cars; market steady. Hogs: Receipts, 20 cars; market strong; heavy and yorkers, \$7.90 @8; pigs, \$6.50@6.75. Sheep and lambs: Receipts, 5 cars; market strong; wool lambs, \$16.85; clipped, \$14.75@15; yearlings, \$12@13; wethers, \$11@11.50; ewes, \$10@10.50. Calves, \$12.50.



ARRANGE FOR SPECIAL DAIRY TRAIN.

EARLY in April a group of railroad officials representing the lines that serve the Upper Peninsula met with Mr. G. E. Bishop, of the Upper Peninsula Development Bureau in Chicago, to arrange for the dairy special train that is to tour the peninsula early in June.

The four railroads—the Duluth, South Shore and Atlantic, the Northwestern, the Chicago, Milwaukee and St. Paul, and the Soo Line—will provide among themselves the necessary rolling-stock and train crews; these include baggage-cars, diners and sleepers, and box cars for the dairy stock. Each railroad will furnish the train crew for its own line.

The Development Bureau, the railroads, the Michigan Agricultural College, and the Guernsey, Holstein and Jersey breeders' associations, will furnish the personnel for supervising the tour. Several prominent agricultural papers will also be represented. The cattle will be selected to show the differences between part and pure-bred dairy animals. Thus there will be exhibited in juxtaposition, scrubs, quarter-breeds, half-breeds, and three-quarter-breeds, and a sire, and also pure-bred cattle, both Guernseys and Holsteins.

At the various points where stops are made, farmers will be admitted to the cars and the dairy experts will discuss the good and bad points presented by the animals on view. It is likely that additional meetings and conferences will take place as opportunity is presented. In this way the lesson of high-grade and pure-bred live stock will be brought home to the farmers of the peninsula. There will, of course, be no expense for the farmers attached to this dairy special or its meetings.

FARM OPERATIONS START.

FARM activities have been slow in starting and are just getting well under way in the southern districts where some plowing has been done and a few oats have been sown. In

the orchard sections, spraying has started. The snow is going fast in the northern districts but frost is not all out of the ground yet.

Reports received indicate very little damage in any section to wheat and rye. Growth is starting in the southern half of the state, and nearly all say the condition is good. Clover seedlings are said to be in excellent condition in all sections. Peach buds are mostly dead in Berrien and Van Buren counties. Farther north a part of the buds are alive and it is thought the condition from Kent county north will later show a sufficient number of good buds for at least a fair crop. Earlier reports from Allegan county also showed some live buds.

The movement of hogs and cattle shows a decrease in some sections and increases in others. In general, the movement of cattle has declined to some extent and that of hogs is larger than usual. The movement of potatoes is slow, although some localities have been nearly cleaned up. Some are holding for higher prices. Beans are also moving slowly, the demand being light at present. There is considerable hay yet to be marketed and the movement is quite active at fairly good prices in the surplus sections.

Industrial activities have slowed down but whether it is merely temporary or not, no one knows. Farm labor is scarce and wages are relatively high. However, labor is more plentiful than it has been in the recent past and nearly equal to the demand at the present high price.

Weakness.—We have a horse that has been failing for some time, now seems weak in hind legs and muscles twitch. G. A. L., Standish, Mich.—Give him one dram of fluid extract of nux vomica, half ounce of Fowler's Solution at a dose in feed, or water, three times a day. Change, and increase his feed.

The Veal Season Is Here

For Quicker Returns, Better Prices, ship YOUR DRESSED Calves to the Largest EXCLUSIVE DEALER in Detroit Market. Tags sent on request. Established 1895.

Otto F. Bernstein

2478 Riopelle St. Detroit, Mich. REFERENCES: Mich. Live Stock Exch., or YOUR BANK.

Ship Your Cattle, Hogs and Sheep to Warns, Iles and Dankert

Union Stock Yards, Toledo, Ohio. For Top Prices. Big Fills—Quick Returns. Correspondence solicited.

Eggs, Etc.—Small consignments from producers in your territory bring very attractive prices NOW. Prompt returns, always. Refer to Dun or Bradstreet. Ship us your next case. ZENITH BUTTER & EGG CO., 170 Duane St., New York, N. Y.

Ship Your Hay and Grain to the OLD RELIABLE HOUSE GEO. E. ROGERS & CO., Pittsburgh, Pa

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

Table with 5 columns: Words, One time, Four times, One time, Four times. Rates range from \$0.80 to \$8.24.

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.

REAL ESTATE

FOR SALE—320-acre farm, partially improved, in Isabella County. Will sell or trade for income-paying property. Brinton F. Hall, Belding, Mich.

FOR SALE—Farm 113 acres, 8-room house, farm buildings, 14 acres hardwood, 2 acres orchard, clover land. Price \$4,000. F. J. Edwards, Bath, Mich., R. 1.

MISCELLANEOUS

CABBAGE PLANTS. Fullwood's Frost Proof plants will produce headed cabbage three weeks before your home grown plants and will stand a temperature of 20 degrees above zero without injury. I have twenty million now ready. Varieties: Jersey Wakefield, Charleston Wakefield, Copenhagen Market, Succession and Flat Dutch. Prices by express any quantity at \$2.00 per 1000. By parcel post, postpaid, 200 for \$1.50 for \$1.75, 1,000 for \$3.00. First class plants and safe arrival guaranteed. P. D. Fullwood, Tifton, Ga.

FROST PROOF CABBAGE PLANTS. Early Jersey, Charleston Wakefield, Flat Dutch, Copenhagen Market and Succession. Prompt shipment of fine plants. Tomato Plants, Earliana, Redfield Beauty, Livingston Globe and Greater Baltimore. Postpaid, 250 for \$1.00, 500 for \$1.60, 1,000 for \$3.00. Express Collect, \$1.50 per 1,000. Tifton Potato Co., Inc., Tifton, Ga.

TOMATO PLANTS—ten million now ready. Open field grown, large, hardy stocky plants. Varieties: New Stone, Greater Baltimore and Livingston Globe. Prices by parcel post, 100, 50c; 500, \$1.50; 1,000, \$2.50, postpaid. By express collect, 1,000 to 4,000, \$2.00 per 1,000; 5,000 to 9,000, \$1.75 per 1,000; 10,000 and over, \$1.50 per 1,000. Roots wrapped in damp moss, safe arrival and satisfaction guaranteed. P. D. Fullwood, Tifton, Ga.

MILLIONS "FROSTPROOF" CABBAGE PLANTS for sale. Fine outdoor grown. Wakefields, Copenhagen Market, Succession, etc., 300 \$1; 500 \$1.50; 1,000 \$2.50. Mailed prepaid. Express 10,000 \$15; 100,000 \$125. Cash. If you want early cabbage, set these plants. Good order delivery positively guaranteed or money refunded. Also grow Tomato and Sweet Potato plants. J. P. Council Company, Wholesale growers, Franklin, Virginia.

1000 STRAWBERRIES \$3.00; Champions \$3.00; 20 Grapes \$1.00; 50 Raspberries \$1.00; 50 Dewberries \$1.00. Catalogue Free. Hellenga's Nursery, Three Oaks, Mich.

WE ARE in position to supply you at all times with good second-hand egg crates, 30 doz. size, including fillers and covers, complete for shipping, at the following rates: Carload lots F. J. O. B. Detroit, 14c each; less than carload lots, 16c each. We also sell fillers flat and excellent pads. Wm Spitz & Sons, 2645 Chene St., Detroit, Mich.

IMPROVED ROBUST BEANS—Heaviest yielding existing variety and latest improved Agricultural College Strain. Ninety-four per cent germination. Not polished or hand-picked. Ninety-pound bag, six dollars, freight prepaid. Will pick about three pounds to bag. A. B. Cook, Owosso, Mich.

30 GLADIOLUS BULBS—new colors, including rare purple, \$1, postpaid. Send for 20-page illustrated catalog of 125 beautiful varieties. Howard W. Gillet, New Lebanon, N. Y.

FOR SALE—Cabbage, tomato and Bermuda onion plants, \$1.00 per 1000 leading varieties, shipping daily. Dorris Plant Co., Valdosta, Ga.

CERTIFIED Manchu soy beans 96 percent germination. Reasonable price. Charles Martin, Oterbein, Indiana.

CERTIFIED Potoskey Seed Potatoes \$1.25 per bushel. Chas. P. Reed, Howell, Mich.

FREE CATALOG. Carpenter's Auction School. Largest in world. Hall Bldg., Kansas City, Mo.

GREEN MOUNTAIN Seed Potatoes, \$1.25 bushel. John Ranta, Calumet, Mich.

IMPROVED Robust Beans, M. A. C. latest strain. \$3.00 per bu. Fritz Mantey, Fairgrove, Mich.

ORDERS now booked for best varieties of vegetable plants at \$10 per 1,000. Price of potted and flowering plants on application. Chelsea Greenhouse, Chelsea, Mich.

SILVER FOXES—I am offering 1924 pups at reasonable prices. Quality Guaranteed. McCombs Silver Fox Ranch, Remus, Mich., R. 2.

INCUBATORS and Brooders, Queen, Buckeye and Reliable at half manufacturer's price. Don't miss this opportunity, send for list. Bartels, 45 Cortlandt Street, New York.

FOR SALE—Holton tractor with plows. Price \$300.00. Matt Makela, Houghton, Mich.

BERRY BOXES—Our Berry Boxes will carry your fruit to market safely. \$4.50 per thousand. Write us. Central Basket Co., Berrien Springs, Mich.

COMMISSION MERCHANTS

SHIP YOUR DRESSED CALVES and poultry to Geo. McCutcheon & Co. In business over 50 years. We want shipment direct from the farm. We charge only one cent a pound commission for selling calves and five cents on the dollar for poultry. Write for quotations and tags. Geo. McCutcheon & Co., 1132-33 Fulton St., Chicago, Ill.

PET STOCK

GERMAN SHEPHERD—Airedales, Collies, Old English Shepherd dogs, puppies. 10c illustrated instructive list. W. R. Watson, Box 35, Macon, Mo.

FOR SALE—Flemish Giant Rabbits, \$2.00; White Holland Tom, \$8.00. Leonard Norton, R. 3, Three Rivers, Mich.

A FEW Rat Terrier Puppies Left. Price Right. H. C. Schrock, Shipshewana, Ind.

TOBACCO

HOMESPUN TOBACCO, five pounds chewing, \$1.75; ten, \$3; twenty, \$5.25. Smoking, five pounds, \$1.25; ten, \$2; twenty, \$3.50. Pipe and Recipe free. Send no money. Pay when received. Kentucky Tobacco Company, Paducah, Ky.

HOMESPUN TOBACCO—Chewing, 5 lbs. \$1.75; Ten \$3.00. Smoking, 5 lbs. \$1.25; Ten \$2.00. Pay when received. Pipe and recipe free. Farmers' Union Paducah, Ky.

NATURAL LEAF TOBACCO: Chewing, Five pounds, \$1.75; Ten, \$3; Smoking, Five pounds, \$1.25; Ten, \$2; Twenty, \$3.50; Pipe and recipe free, pay when received. Cooperative Farmers, Paducah, Kentucky.

HOMESPUN TOBACCO. Quality Guaranteed. Smoking 10 pounds \$1.25. 20 pounds \$2.00. Pipe and Recipe free. Chewing 10 pounds \$2.50. Kentucky Tobacco Growers, Sedalia, Kentucky.

BABY CHICKS

BRED TO LAY Barred Rock chicks, hens, all blood tested for White Diarrhea by Michigan Agricultural College Bacteriological Dept. Pedigreed males from high-record hens used. Circular free. L. W. Aseltine, R. 1, Grand Rapids, Mich.

BABY CHICKS—20 leading varieties, hatched from heavy laying strains; live delivery guaranteed anywhere in the U. S.; lowest prices ever offered. Write for catalog and price list. Miller Hatcheries, Box 651, Lancaster, Mo.

BRED TO LAY Barred Rock Chicks of quality. Cull-ed by experts. \$15.00 per Hundred, after May 15th, \$13.00. Postpaid. Delivery guaranteed. Order from this ad. Krueper Poultry Farm & Hatchery, Milan, Michigan.

BABY CHICKS from heavy-laying strains. All leading pure breeds. Low prices. Prepaid. Live delivery guaranteed. Catalog Free. Smith Bros.' Hatcheries, Mexico, Mo.

BABY CHICKS—Remarkable for size and strength. Reasonable prices. Leghorns, Anconas, Rocks, Reds, Wyandottes, Orpingtons, Minorcas, Spanish, Brahmas. Tyrone Poultry Farm, Fenton, Mich.

HA! Look! 100,000 chicks 8c and up, 15 varieties. From highest producing contest winners. Hatching eggs. Circular. Lawrence Hatchery, Box J, R. 7, Grand Rapids, Mich.

BABY CHICKS from Bred-to-Lay farm flocks. Barred Rocks, Reds, English White Leghorns. Now booking orders for May delivery. 100 percent live delivery. Chicks 10c each and up. Goret's Poultry Farm, Corunna, Mich.

RICHARDSON'S ROCKY RIDGE pure Parks strain Barred Rock Baby Chicks, \$16 per 100. Hanover, Mich.

BABY CHICKS and eggs. Superior Ringlet Barred Rocks, R. C. R. I. Reds, White Leghorns. Circular. Wyndham's Ideal Hatchery, Tiffin, Ohio.

BABY CHICKS—Rocks, Reds, Silver L. Wyandottes, White Wyandottes, Anconas, White and Brown Leghorns have been culled and inspected. We have real quality at commercial prices. One of the oldest hatcheries in Michigan. Write for prices. Shepard Poultry Farm, Litchfield, Mich.

BLOOD TESTED STOCK—Rocks and Reds, all tested for Bacillary White Diarrhea. Other leading varieties. Our catalog tells all about them. Write for it. H. H. Pierce, Jerome, Mich.

100,000 Hollywood Barron Chicks, 250-288-egg lines, 100, \$12.50; 1,000, \$120. Postpaid. Order from this ad. Highland Poultry Farm, Holland, Mich., R. 9, Box C.

CHICKS AND EGGS. Order now from my heavy laying strains. Rocks, Reds, Anconas, White and Brown Leghorns. Frank Heinz, Comstock Park, Mich.

BABY CHICKS—Popular varieties guaranteed true to name and healthy stock. Correspondence solicited. Home Hatchery, Fenton, Mich.

BAB'S BIG, beautiful, brilliant Reds S. C. Chicks. Eggs, Stock, Quality at farmers' prices. Babcock & Son, R. D. 6, Battle Creek, Michigan.

BABY CHICKS—Barron S. C. W. Leghorns, 10c up. Park Strain Barred Rocks from 14c up. Sent by parcel post, 100 per cent live delivery guaranteed. Waterway Hatchery, R. 4, Holland, Mich.

QUALITY CHICKS—Postpaid, Leghorns, 10c. Rocks, Reds, Orpingtons, Wyandottes, Anconas, 12c. Lt. Brahmas, 15c. Assorted, 7c. Catalog gives quantity price. Missouri Poultry Farms, Columbia, Mo.

S. C. WHITE Leghorn chicks, bred for heavy winter egg production. Breeding stock inspected by Michigan Agricultural College expert. Mrs. F. E. Ford, Norvell, Mich.

BABY CHICKS—Rhode Island Reds 12c. White Leghorns 10c; large mixed 9c. Live delivery guaranteed. Ida Frause, Maple City, Mich.

PURE-BRED Barred Rocks and Rhode Island Reds \$14.00, 98 percent live delivery guaranteed. Brookdale Poultry Farm, Paw Paw, Mich.

WHITE ROX, Barred Rox, Superior quality farm range stock, 2,600 breeders, Eggs any quantity. Chix, White Wing Egg Farm, Oregonia, Ohio, R. 2.

BABY CHICKS—Thoroughbred, White Wyandottes, Rocks, Reds and White Leghorns. Write for prices. Grace Milliken, P. O. Box 453, Fenton, Mich.

S. C. BUFF LEGHORN Baby Chicks from good laying strain. Willard Webster, Bath, Mich.

POULTRY

STOCK and Eggs by 100 or 1,000 lots, all leading Varieties Chickens, Ducks, Geese, Bantams, Guinea, Turkeys, Fox Terrier Pups. Write your wants, Jesse Burnside, Judson, Ind.

PULLETS—Barron English and Ferris American Leghorns. Eight weeks, 85c. Barred Rocks, White Rocks, Rhode Island Reds, \$1. Ready April 21st. Early Hatches make bigger, stronger birds. Early fall and winter eggs. Rufus Morse, Belding, Mich.

BARRED ROCKS—Park's best pedigree stock, mated with M. A. C. and Dennison pedigree cockerels. Hatching eggs \$2 per 15; \$5 per 50; \$10 per 100. Chicks \$20 per 100. Prepaid by parcel post. R. G. Kirby, Route 1, East Lansing, Mich.

STOCK & EGGS—Buff & W. Leghorns, Orpingtons, Reds & Anconas, \$1 for 15; \$5 for 100, parcel post. Turkeys, Ducks & Geese, Indianapolis winners. W. C. Jackson, R. 3, South Bend, Ind.

ROSE COMB REDS—heavy layers, winners 1st cockerel, 2nd young hen, Michigan Red meet. Order eggs now. Mating list on request. L. B. Hendrickson, 81 Frisbie Ave., Battle Creek, Mich.

S. C. BLACK MINORCAS—Heavy birds, Northrup strain. Hatching eggs, \$1.50 for 15, \$8.00 per 100. C. J. Deedrick, Vassar, Mich.

S. C. BROWN LEGHORNS—Record producers. Fresh selected range eggs postpaid, 30, \$2.40; 45, \$3.10; 100, \$5.75. Floyd Robertson, Lexington, Indiana.

SNOWY WHITE ROCKS, Fishel strain. Eggs prepaid, 15—\$1.50; 50—\$3.75; 100—\$7.00. Mrs. Earl Dehnhoff, Vanburen, Ohio.

ROSE COMB Rhode Island Reds. Hatching Eggs \$1.25 per 15. Postpaid. Mrs. Albert Harwood, R. 4, Charlevoix, Mich.

PULLETS—5,000 Barron White Leghorns, Barred Rock, Brown Leghorns for June-July delivery. Write for prices. H. Knoll, Jr., R. 1, Holland, Mich.

SILVER LACED and White Wyandotte Choice Cockerels. C. W. Browning, Portland, Mich.

WHITE ROCK EGGS, 15—\$1.00; 100—\$6.00. D. Barnett, Waynetown, Ind.

MAMMOTH BRONZE TURKEY EGGS, \$4.00 for 9, \$7.50 for 18. Sicilian Buttercup eggs, \$1.50 for 15, \$2.50 for 30, postpaid. Caroline Kunkel, Boyne City, Mich.

TURKEY EGGS from our famous pure-bred Mammoth Bronze, Bourbon Red, Narragansett, White Holland flocks. 15 reasons why we have the greatest bargains for you. Walter Bros., Powhatan Point, Ohio.

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SINGLE COMB REDS—Hatching eggs, from all pens, will be half price, after May first. Harry J. Theis, 283 Hunter St., Battle Creek, Mich.

68 VARIETIES fine pure-bred chickens, ducks, geese, turkeys, fowls, eggs, baby chicks. Large catalog 5c. A. A. Ziemer, Austin, Minn.

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EGGS—From Mammoth Bronze Turkeys 45c each; Barred Rocks, show and utility stock, \$1.00 to \$1.50 a setting. Dawson's Farm, Muskegon, Mich.

EGGS for hatching from pure-bred White Rocks, Fishel's strain. Chas. Kletzen, Bath, Mich.

NARRAGANSETT Turkey eggs, pure blood, 10 for \$6.00, delivered. Ernest Clement, Ionia, Mich.

TURKEY EGGS—White Holland, 50 cents each, postpaid. Mrs. Frances Lindberg, Hessel, Mich.

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## RURAL HEALTH

By Dr. C. H. Lerrigo

### WHAT YOU SHOULD EAT.

SOME time ago the United States Department of Agriculture made a study of the kind, quality and quantity of food required to keep in good condition the average family. It was based on a family of husband, wife, and three children from three to twelve years of age, and the supposition was that they would be a family doing moderately hard work.

First of all, they must have, daily, four and a half pound of bread, which would have the same food value as three pounds of wheat or rye flour. Less bread would be needed if the family substituted some oatmeal, cornmeal, hominy, rice, or ate largely of potatoes.

Slightly less than half a pound of fat daily would be desirable. This might be butter, beef drippings or any good animal fat.

A little more than one cup of sugar per day, based on a weekly allowance of four pounds for the family. Some other sweet, such as maple syrup or honey might be substituted.

Four pounds in all of fresh fruits and fresh or root vegetables.

Three quarts of milk.  
One pound of meat food or some of the meat substitutes.

If you check your food supply against this you will probably find that you do not use as much milk. This may not be necessary in families without young children, but if there are three children under twelve years you need every drop of the prescribed amount.

Possibly you use more than the stated amount of sugar, and it is quite likely that you do not take your proper proportion of fresh fruits and vegetables.

Your meat foods will include meats, fish, poultry and eggs.

### ADVISES CIRCUMCISION.

I have a boy thirteen years old that wets the bed almost every night. I have doctored him and given him several kinds of patent medicine. He never has had a hard sick spell. Eats well, learns good in school, weighs 106 pounds, and is a healthy looking lad, full of life.—M. S.

There are many things to be said about this trouble, but in a boy of that age the very first thing to consider is circumcision. It often helps.

### HEART IS ENLARGED.

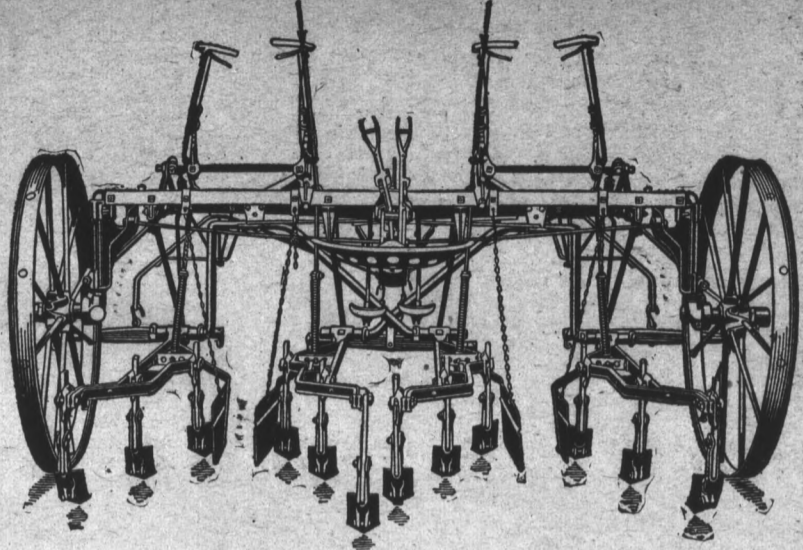
I have enlargement of the heart, and tire very easily. Could the heart be the cause of it? Can a doctor tell how bad it is, positively, by using his instrument on the chest, or some other way? I am thirty-one years of age. Should I avoid all hard work or violent exercise?—E. M. B. K.

Enlargement of the heart is a very vague term that may mean much or little. A serious case will render a patient quite unfit for work of any kind and one of the very best forms of treatment consists in putting the patient to bed and keeping him there until the heart muscle has regained tone. Diagnosis of heart trouble is generally made by the use of the stethoscope, which carries the valve sounds to the doctor's ear. But much help may also be obtained from X-Ray plates, from a test of blood pressure and various other methods.

### X-RAY FOR APPENDICITIS.

In case of doubt about whether a person has appendicitis, would it be a good thing to get an X-Ray picture?

I do not recommend it. An X-Ray picture taken by a skilled person will reveal some information about the bowels and appendix, but nothing definite to decide the diagnosis of appendicitis. In case of doubt, it is better to have the appendix removed than to take a chance.



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