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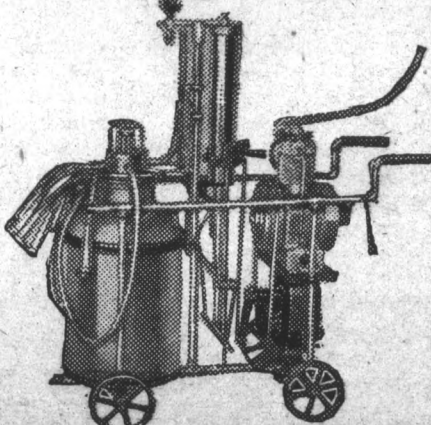
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DISCOURAGE CHANGE IN PARCEL POST RATES.

SUCH a vigorous and widespread protest was made by the farmers against the proposed increase in parcel post rates that the joint sub-committee having the matter in charge, has evidently decided that a back-down is better than a move so unpopular as the proposed increase in parcel post rates has proved to be. It has decided on a raise of \$300 for each carrier, without providing a way to raise the money.

OLEO DISTURBS BUTTER TRADE.

STATISTICS of the department of agriculture indicate that the dairy industry has reached a point of almost exact balance between production and consumption. Upon this sensitive market, according to A. M. Loomis, secretary of the National Dairy Union, the largely increasing production of oleo-margarine and steadily mounting imports of foreign butter, must inevitably have a very depressing influence and be to quite an extent responsible for the present unsatisfactory condition of the butter market.

BELIEVE REVISED EXPORT BILL WILL PASS HOUSE.

THE McNary-Haugen agricultural export bill, revised to meet the approval of a majority of the committee on agriculture, has been reported to the house, and it is confidently predicted by the farm organization representatives that it will receive favorable action on the floor of the house. There were wide differences of opinion on the part of the committee to be ironed out in the hearings, but the main features of the original bill are preserved.

WILL CONFINE EFFORTS TO THREE BILLS.

IT has been decided by the executive committee of the American Farm Bureau Federation at a meeting in Washington that for the remainder of the present session of congress the federation would continue to exert its major efforts on the McNary-Haugen bill, the Ford offer to lease Muscle Shoals and the Capper-French truth-in-fabrics bill. The Washington office of the federation is receiving thousands of letters endorsing these three bills and asking that the federation do everything possible to convince congress that the farmers are in earnest when they demand that these bills be enacted.

CUT AGRICULTURAL APPROPRIATION BILL.

THE agricultural appropriation bill passed the house, carrying a total of \$56,683,743 for the department of agriculture. This is \$665,000 less than was requested by the budget bureau, and a decrease of \$211,000 as compared with last year.

INLAND WATER TRAFFIC INCREASES.

AN increase of inland waterway traffic for the first three months of 1924 is shown by government statistics. With better organization of water transportation activities and more efficient facilities for handling the traffic it is believed that this growth in inland waterway transportation will continue at a very satisfactory rate, to the relief of the railroads and reduction of transportation costs.

Farmers who formerly grew corn for the Old Charter Distillery in Bullitt county, Kentucky, will now draw tomatoes, corn and peas there to be canned.

Slam that fly, lest he multiply.

DEVOTED
TO
MICHIGAN
VOLUME CLXII

MICHIGAN FARMER

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

QUALITY
RELIABILITY
SERVICE
NUMBER NINETEEN

New Angles On An Old Business

Cattle Feeders Gather At Ames To Review Recent Experimental Work

By R. V. Peterson

OPTIMISM was the keynote of the annual Iowa cattle breeders' day program which was held at Iowa State College on April 22. Optimism regarding the buying price of steers, optimism regarding cost of feeds, and almost exuberation over the rising cattle market was expressed on every hand.

Twelve hundred farmers, many of them traveling two hundred miles, saw the seventy Hereford steers that had been on feed for the past 120 days, in the morning session and listened to the talks during the afternoon. Scores of farmers asked John M. Evvard and C. C. Culbertson, who were in charge of the experiments, innumerable questions. They all left, firm in the conviction that the cattle feeding business has come out of its slump and that it is on its way to rapid recovery.

The solution of four major cattle feeding problems has been the object of the experiments this year. They are: (1) whether or not mineral mixtures are valuable for fattening cattle; (2) the value of oats; (3) the value of soy-beans, either as a hay or as oil meal, and (4) the old cattle feeder's problem, ensilage vs. hay.

The only definite answer which has been worked out by this year's experiments has been the first: the value of mineral mixtures for fattening cattle.

The problem of feeding protein supplements came under three general heads. First, does it pay to feed protein supplements? Second, is cottonseed meal or linseed oil meal the better protein supplement? And third, should a steer be fed one and one-half

or three pounds of protein supplement per day?

The seventy steers were divided into groups of seven steers each and placed on a different ration, indicated as follows:

Lot No. 1, standard corn belt feeds of shelled corn fed twice daily, plus corn silage fed twice daily, plus all the medium red clover and salt the cattle would eat. This lot was simply a check lot.

Lot No. 2, the same as Lot No. 1, except that each steer was given one

and one-half pounds of linseed oilmeal each day.

Lot No. 3, same as Lot No. 1, except that each steer was given three pounds of linseed oil meal each day.

Lot No. 4, same as Lot No. 1, except that one and one-half pounds of cottonseed meal was fed each steer, each day.

Lot No. 5, same as Lot No. 1, except that each steer was fed three pounds of cottonseed meal each day.

Lots 6, 7, 8, 9 and 10 were exact duplications of Lots 1, 2, 3 and 5, ex-

cept that the ensilage was left out of the ration.

You see, this gives a perfectly simple and clear experiment designed to determine the value of the protein supplements. Over a period of 120 days, which is long enough to overcome experimental error, involving seventy steers and with the careful methods of experiment station workers the results can be taken at face value.

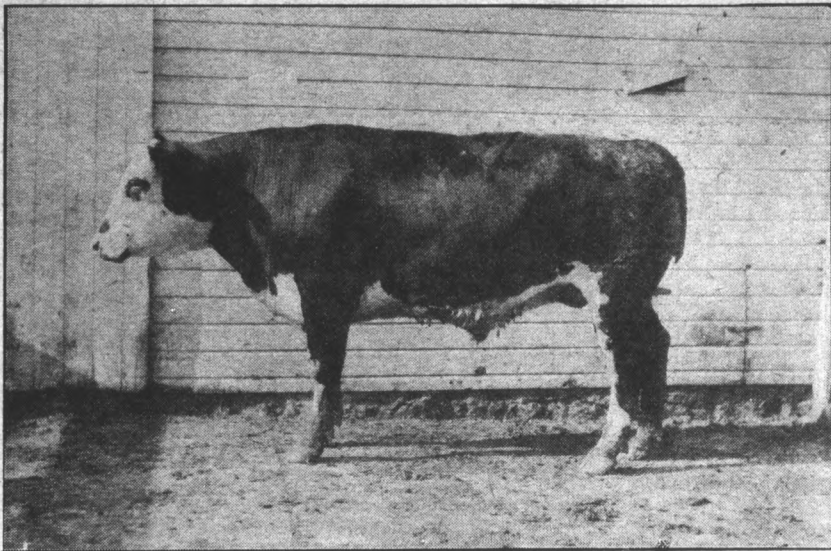
In the morning before the steers were shown to the visitors, Henry Duplan, of Wilson & Co., and A. J. Milton, of John Clay & Co., went over each group of steers and evaluated each lot. Using these estimates as a basis, it is possible to determine, fairly accurately, the profit each steer made.

Lot No. 7, which was fed the standard corn belt ration without ensilage but with one and one-half pounds of linseed oil meal, was evaluated at \$10 per hundred pounds. Crediting the fed saved by the three hogs, as well as the hog gains, made a net profit of \$4.37, clearly the most profitable lot in the test.

The second most profitable lot was Lot No. 2, fed the standard corn belt ration, which included ensilage, you will remember, and one and one-half pounds of linseed oil meal to each steer each day. This lot made a profit of \$4.28 per steer.

The third most profitable lot in the test was Lot No. 6, which was the standard corn belt ration without any protein supplement whatever. This lot made a net profit of \$2.83 per steer.

In summarizing up the results of this test, Professor Evvard says: "The (Continued on page 680).



This, the Best Killing Steer in the Bunch, Made a Daily Gain of 3.27 lbs. on a Ration of 16 lbs. Shelled Corn, 2.5 lbs. Linseed Meal, a Little Mineral Mixture, 30 lbs. Corn Silage, a Pound of Mixed Clover Hay and Three-Fifths Ounce of Salt.

Growing Big Potato Crops

H. Lorenzen Gives His Method of Handling Seed and Planting

IN contributing this article on potato culture, I shall refer mostly to and cover four points, essential to obtaining good potato crops. There is, perhaps, one drawback to it, and that is that planting may be impossible by machine, because only one piece can be dropped at a time by machine. But for better seed purposes, hand-work will come in O. K. The points are as follows: (1) good seed; (2) increase in yield; (3) regulation of size, and (4) preventing retrogression.

Good Seed.

Good seed potatoes that contain a good live eye, are needed. The eye is what does the work. Now, how to tell and get a good eye. To tell that, you must green sprout the seed; then you can pick out all the best and most prolific eyes. All eyes are not good. Some are almost dead and are not sprouted, while others are away ahead. The dead eyes may sprout some time after being in the ground, but will not make good and may only retard the growth of others. You must have all live eyes. Tubers from three to eight ounces in size should be cut to one eye in a piece as large as possible. The pieces ought not to be smaller than one and a quarter inches in diameter—an inch piece will do, if it has

a good eye and does not lie too long before planting. But large pieces are the best.

Then plant from two to three, or even four of these pieces to a hill. Pieces with one living eye, when planted together will each work separately; all will come as a general thing, and produce better than any other way.

The yield will be increased, because each eye works alone, and will seldom fail to come, according to my observation. Each eye will bring from three to six potatoes; on the average about four. In this way there is nothing to detract from each eye's growth.

But the other system, where the eyes are on one piece, one eye detracts from the other, and in some cases you have one good eye and one or two poor ones. The good one comes and the others, if they come at all, will be weak and hinder growth of the good one. Potatoes from weak eyes never measure up with those from live eyes.

Regulation of Size.

I have found by experience that the single eye method generally brings more tubers in number, also in weight. When you have more in number, they have more chance to continue growing. But with fewer, they attain their maximum growth and then no more.

The size can be regulated by the number of eyes put in a hill. This, of course, would depend upon the fertility of the soil; two or three would be about right. The more in a hill, the smaller per ounce in weight will the resulting tubers average.

Real large tubers are not practical or economical. They are generally of uneven surface, and often hollow, causing loss thereby and also in peeling. In large hotels they prefer medium-sized tubers.

Retrogression.

Under this system, if it can be carried out to advantage, potatoes will not retrograde (run out) very soon, because when for seed you select the best from the best original stock, you have a chance to pick the best eyes from the best potatoes. That is the only course to follow in propagating vegetation as well as in breeding live stock.

In conclusion, I want to say: That this article was written mostly to have those interested in potato culture, regardless of high or low prices, to try the method out in a fair way and while so doing to always bear in mind the meaning of what Darwin said in his "Origin of Species"—"Like begets like, as a general thing; but there are

variations." It is good advice to follow.

Potatoes are often freakish—you never can tell what you may discover by applying a little of the Burbank observation and practice.

Potato raising is like other businesses. Nowadays, if you wish to be successful in work of selling your product, you must have something a little better than your competitor. Your goods must be of good quality and be presentable to the eye.

There is one mistake prevalent among farmers; that is, while harvesting their crop of potatoes, they handle them too roughly and exercise too little care in getting them ready for storage and marketing. Everything is done in a hurry-up and careless manner. Potatoes are often dug before fully matured, and therefore easily become bruised and are more subject to silt and rot.

Aside from the one-eye system of planting, the next best method is to plant whole tubers in size from two and one-half to five ounces in weight, with the bottom quarter cut off. Some internal diseases may thereby be detected; also it will eliminate weak and dead eyes. Whole potatoes when planted usually do well. And there's a good reason for it.

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DETROIT, MAY 10, 1924

CURRENT COMMENT

One of the best times to cultivate

some crops are before they are in the

ground; in other words, well begun is

half done.

Spring is the season of promise. If

we will but fulfill our promises to our

farm, it will fulfill its promises to us.

The largest single factors in the cost

of the production of wheat is man and

horse labor.

The annual spring fever usually

springs from the stomach which rebels

against a long-continued diet lacking

mineral salts and vitamins.

The Child Labor Amendment

THE child labor

amendment to

the federal constitu-

tion which proposes

that congress shall

have the power to

limit, regulate, and prohibit the labor

of persons under eighteen years of

age, has passed the lower house by a

vote of 297 to 69.

This amendment was opposed by

farm organizations upon the ground

that it would give federal agents un-

limited power over the youth of the

land, and would, as one congressman

put it, "legislate all the youth of this

country into idleness for the first

eighteen years of life." In spite of

this opposition, the friends of this bill

are confident that the required number

of state legislatures will be found to

endorse the proposed amendment to

make it a part of the federal consti-

tution.

It is clear that this proposed addi-

tion to our fundamental law is espe-

cially aimed at the employment of

children on the farms, since an amend-

ment to the proposal exempting chil-

dren on farms and those working in

homes with their mothers, was reject-

ed by a substantial vote. Another

amendment making the provisions ap-

plicable to children under sixteen

years instead of eighteen was likewise

defeated. Further, the alleged findings

of the national child labor organiza-

tion in the Michigan beet fields, which

were later discovered by a committee

of the state legislature and by private

investigators to be largely unfounded,

had been used in cities throughout the

country before civic, church and other

societies to build up a prejudice

against the customary employment of

children on the farms.

It is not our purpose to discuss the

merits of this proposed amendment,

but simply to remind readers that here

is a case where labor organizations

and farm organizations clashed and largely through the more effective methods of the farmer, they won.

Holding The Line

ALL hail to he who holds the line—the man who steadfastly sticks to his task through critical periods! Thousands of farmers during these days of doubts and fears and discouragements are fighting with their backs to the wall. They are determined to see the thing through or go down in the attempt. They have faith that what has been will be again, and are holding the line with dogged tenacity, knowing, no doubt, that when good fortune again smiles down upon the farm those who have kept fit will be the first to benefit.

It is not dollars alone that make these men hang on, work hard and live on hopes. Rather it is the desire to see the fulfillment of an ideal. Much of the reward that comes to us on the farm, comes not in dollars and cents and swelling bank accounts, but in rich, neat fields, in bounteous crops, in luscious fruits, in slick live stock, and beautiful homes.

Perhaps it is this thought that has led to the realization that farming is not so much a business after all, as it is a mode of life. We do not bend our backs in painful and strenuous effort, work long hours, and do our very best when dollars only are the reward. We do these things because ambition spurs us on to accomplish the things we have set out to do, to reach the goal that is of our own making.

It is these men, who are not easily led aside from their chosen pathway, who do not sidetrack with every shifting of the wind, who drive steadily on toward the attainment of their ideals, whether the way be smooth or strewn with obstacles, that are today "holding the line." It is they who form the great balance wheel of civilization, who keep the world from going backward during times like these, who make this country safe and leave room therein for comfort, song and laughter. Again, All Hail to he who holds the line!

Those Who Know Beans

THE plebian bean is now attracting national attention for its prices have been mostly in the dumps. Therefore, federal agents are busy gathering information with reference to the market situation with the thought of standardizing bean grades and bringing this soldiers' friend (?) under the warehouse act so that the crop may be financed in storage over the slump periods.

The warehouse act is undoubtedly a good thing for it makes the borrowing of money on hold-over crops much easier. It, at least, will give the financial kings a chance to get their hands in the bean bag. These money lenders know enough about beans, and more about making money, to be interested in this warehouse proposition.

Of course, to work the warehouse act it is necessary to standardize the product, as there are beans and beans. That standardization is a good thing, most any student of marketing will admit. But, in this particular situation it puts Michigan to disadvantage.

It so happens that Michigan is endowed with conditions which grow a better bean than most other places. It is also fortunate in having growers who know how to grow good beans and dealers who know how to sell them. Therefore, Michigan's distinctive gradings of a superior product have won a reputation on the market. Now, if the Michigan beans are marked U. S. No. 1, etc., they lose their distinctiveness as they are placed on the level with beans grown in California and other places where just beans are grown.

Michigan can not afford to lose the distinctive popularity for its bean

product which it has developed in the last thirty years and is therefore looking with caution at this new attempt at standardization. It rather puts Michigan between the devil and the deep blue sea as standardization and warehousing are good things, but a reputation is also, and to Michigan, who has an enviable one, it is even more prized than the other things.

Let's hope that the situation can be so worked out that the benefits of standardization can be obtained and still Michigan be able to impress the market public with the distinctive high quality of its product.

Farmers Know Them

THAT city man whom we in our travels occasionally meet with his elevated five-center, and thumbs pulling at his vest arm holes, gave birth to another of his effervescent productions the other day, expounding the wonderful way "we city people do things." Since we were obliged to stay in the same hotel that night, it was necessary to give attention to this man's statement.

After due deliberation the general conclusion was reached that this city man had no special reason to overflow with self-praise and strut about with chest pointed upward. He and his kind were not responsible for the energy and the business acumen that drives the great projects of our modern cities. That physical energy and mental activity are the products of the American farm.

The farm manned the cities. The dignified presidents, the keen managers, the bustling superintendents, the busy foremen, and, withal, the thousands of skilled workers of every sort were very largely recruited from the good old farms. And from these same farms have come the stuff that maintains these city workers in condition fit to continue the services which have resulted in the upbuilding of our great centers of population.

Whatever may be the claims of a few enthusiastic "city failures," the fact remains that great cities are possible only as farming becomes more and more efficient.

More Book Farmers

IT is interesting to note that more farmers are getting on an efficiency basis in their farm operations. The United States Bureau of Agricultural Economics find that 16,000 farmers are keeping books and as a result 7,000 of them have changed their farm operating plans.

These figures show that farmers are gradually beginning to realize that book-keeping is to farming what the Babcock test is to dairying, and culling is to poultry raising.

The average farmer has boarder crops as well as boarder cows, but the one who keeps records has neither. The farmer who farms on the I-don't-know-where-I-am-going-but-I-am-on-my-way basis does not know over which crops he should reap and weep, or harvest happily.

It pays to know where you are at in farming as well as in other things of life.

Wild Geese And Men

LAST week a widely known naturalist reminded us of the difference between men and wild geese. According to this man, when the leader of a flock of wild geese tells his followers to "look out," every member of the flock looks in the direction of the danger. But, if such a warning is given to a crowd of humans, they will look in every direction. This possibly indicates that these birds are well-organized and men are not.

At least, a high percentage of human institutions are short-lived. The ma-

jority of organizations for social improvement soon lose their attraction and die. Over ninety per cent of business enterprises fail. We have seen many programs, built around some "ism," flatten out in a very short while.

But the few that survive seem to have a common characteristic. They live because they have an objective that the members consider worthwhile. There is something to rally around. A volunteer army can be raised promptly when there is an enemy to fight. Farmers, like other people, can be made to stick if their organization programs have something in them that the member can stick to. In other words, if leadership can so crystallize the objective of an organization that every member will instinctively face the common danger, problem, or aspiration when the "look out" sign is displayed, the chances of that organization carrying on are promising. Then the members will likely show that same even front line as do the wild geese on their migration journeys.

Base Bawl

THE other day I went to the what you call metropolis of our grand and glorious state and was entertained by one of my influenshull friends.

Base Bawl at home is base bawl. I like to see Willie Jones swat them, and Mike Simpson steal home, like he was out all night and didn't want his wife to see him get in. And I like to umpire. I get along O. K. 'cause I give the decishun ta the side what will kick the most, and then onct in a while I do it the other way ta show them I'm fair about it.

But, base bawl in the metropolis is somethin' different. There you pay a dollar and a half ta see somebody else work, when you kin work fer nothin' yourself. But them city fellers is got so used ta not workin' that it is a natshunal pastime ta pay money ta see someone else do it.

This is the way you do it. First you stand in line like a lotta sheep tryin' ta get through a gate ta spend your dollar and a half. Then you run up a runway just like a lotta sheep in the stock yards. Next you set on a hard seat and buy a bag o' peanuts what has nine peanuts in it fer ten cents, and wait fer the umpire ta bawl out "play bawl."

Durin' the proceedin's you listen ta the feller next ta you tellin' you all about the natshunal and unnaturshunal history of the players. He talks like he knows their families and everythin', and it seems everybody there is got somebody next to them doin' the same thing.

Then everybody there gets real excited when one of them twenty-five thousand dollar a year beauties hits the bawl and gets ta second base. The game ain't as interestin' as the home game, 'cause they don't hit the bawl so often, but you've paid a dollar and a half so you gotta get as much fun as you kin outa it.

Now when city folk go ta the bawl game they is gotta tell their boss they Grandmother's funeral is and I kin bet you there's more Grandmothers' funerals when a bawl game is on than there is Grandma's ta go around. So it looks like base bawl is good fer the undertakers.

Now I never tell my boss, Sophie, that. I just tell her I gotta go ta town on business and when she asts what that business is I say I'm goin' ta see why there is so many strikeouts among the fly swatters and what kin be done with the "foul" productshun evil.

HY SYCKLE.



The Folks Who Need the Farm Loan

By Archer P. Whallon

THE other day I happened into the office of a certain Mr. Mel Trumper, we will say his name is, though in the interest of truth and veracity, it may be well to state that this is not his real name, neither is Billington, Michigan, that of the county seat town in which the office is located. But these names will do as well as any, and at any rate, Mel and his kind constitute a class of beings sufficiently common to the smaller country towns, though I suppose these financial birds of prey have their relatives also in the most crowded metropolis.

Mel's office is located one flight of stairs up, over the "Farmers' and Merchants' Savings Bank." There are two rooms in the office, an outer and an inner sanctum. There is a couch in the outer room from which seat of repose one can, if perchance the door to the inner office is not fully closed, watch proceedings going on at the desk of its occupant. Such an opportunity for eavesdropping chanced to be my fortune.

Mel was entertaining a caller. A Mr. Schnackerberger, let us say, for

hope you don't feel particularly gentle toward Mel and his kind by this time, you have guessed it. Mel is a loan shark and it is a chattel mortgage that is in the making.

"There now," says Mel, "that makes it. Let's see, you want \$200 for eight months, let's see"—and he begins running his finger up and down columns of figures in a little red book that lies open on his desk. What this book is I can't say. Supposedly it is a compilation of interest tables, but maybe not—possibly it is one of grain price tables, or of logarithms or of geometrical progression—from the results that Mel gets out of it, I rather suspect that it is the latter. But Mel's finger has paused in its search. "Here we have it," he says, "\$200 for eight months will cost you exactly—exactly," he repeats the word caressingly, "\$236.54. That's it, \$236.54, that is," he hastens to explain, "the papers will be drawn for that amount, the interest at seven per cent will be on that figure—and if you will just have your wife step up to the office to sign up, I'll have Judge Heck acknowledge your signatures and your check will be



With a Poor Sandy-soil Handicap these Soy-beans Dug in and Produced a Clay-loam Sized Crop.

he was evidently of German descent. A young man possibly in the early twenties with the word farmer written all over him. They were making out some kind of a document, a legal paper, it seemed. Mr. Schnackerberger's voice continued in a dreary monotone—"one brown gelding, white star in forehead, one bay mare, white front feet about nine years old, one black Percheron mare colt two years old"—and then came the cattle, calves. Here Mel interrupted, "all increase of same." "All increase of same," repeats Mr. Schnackerberger, and continues, "eighteen fine wool ewes." "All increase of same," again prompts Mel, and then Mr. Schnackerberger continues, "one Poland China brood sow," but Mel again interrupts, "any buck?" he says. And Schnackerberger answers "one fine wool buck, and repeats, "one Poland China brood sow, all increase of same," this time without prompting.

Then come the tools, all the implements necessary for a renter, ending up "one wide-tired wagon." "Whiffletree and neckyoke?" asks Mel. "Whiffletree and neckyoke," repeats his caller. "Now the furniture," says Mel. "Household furniture, each and every thing," says Mr. Schnackerberger hurriedly, as if eager to have the thing over and done with. "Name 'em," says Mel, shortly—and so the list goes on, ending "one set blue and white china dishes, and bed-ticks, mattresses, feather-beds, pillows, quilts, and blankets for three beds." "Each and every thing," asks Mel. "Each and every thing," again repeats Mr. Schnackerberger.

Yes, gentle reader, though I rather

ready for you and you can get your money at the bank."

Figure it out for yourself—just what rate of interest Mel Trumper is getting for his money. Two hundred dollars for eight months becomes \$200 plus \$36.54 bonus plus interest at seven per cent on the combined sum. It makes my head ache—but it will make not only the heads, but the hearts, and the bodies and souls of Mr. Schnackerberger and wife ache before they get it paid, if they ever do. It is about an even chance, that through the geometrical increase of renewals, another bonus each time, that in three or four years it will have grown to five or six hundred dollars, and that Mr. Schnackerberger will be around posting auction bills upon which Mel Trumper's name appears as "clerk." And to get this original \$200, this honest, hard-working young farmer has not only mortgaged everything he can call his own, but has even been driven to have his girl wife, a bride of less than a year, add her signature to a chattel mortgage that covers even the dishes on the table and the sheets on the bed. What chance is there for these young folks? There is a wistful, pathetic little look in little Mrs. Schnackerberger's eyes, as they leave the office and give a furtive glance around to see that none of the folks from their own neighborhood have seen them.

But Mel has other callers. This time it is old Obed Jones and his wife Sarah. The same kind of a list of farm property is enumerated. There is "old Spot"—"such a good cow," interpolates Aunt Sarah, "her milk is so rich, and the cream so thick and al-

(Continued on page 668).



"They Can't Fool Me" Said the man from lower 8

A Palmolive Shaving Cream enthusiast met a doubter in a Pullman washroom.

"I have made a great discovery," said the enthusiast. "I sent for a free tube of Palmolive Shaving Cream, because of the claims they made. And I found that every claim was true."

"I will do the same," said the other. "But I have a shaving soap I like, and they can't fool me."

That's all we ask

That is all we ask—a test. We expect to stand or fall by the verdict. But remember this: Back of this Shaving Cream lies 60 years of study. Some of us have spent our lifetimes to attain the necessary skill.

Our record proves us competent. We have made several great soap creations. One of them—Palmolive Soap—is the leading toilet soap of the world.

Before we made Palmolive Shaving Cream we asked 1,000 men what they most desired. Then we set out to meet their five desires better than others had done.

We worked 18 months, made up 130 formulas, before we satisfied ourselves. But then we had a Shaving Cream which all who know applaud.

Do us the kindness to try it. Cut out this coupon as a reminder. You owe that to yourself and us.

5 New Delights

Palmolive Shaving Cream multiplies itself in lather 250 times. It softens the beard in one minute.

It maintains its creamy fullness for 10 minutes on the face.

The extra-strong bubbles support the hairs for cutting.

The palm and olive oil content brings fine after-effects.

To add the final touch to shaving luxury, we have created Palmolive After Shaving Talc—especially for men. Doesn't show. Leaves the skin smooth and fresh, and gives that well-groomed look. Try the sample we are sending free with the tube of Shaving Cream.

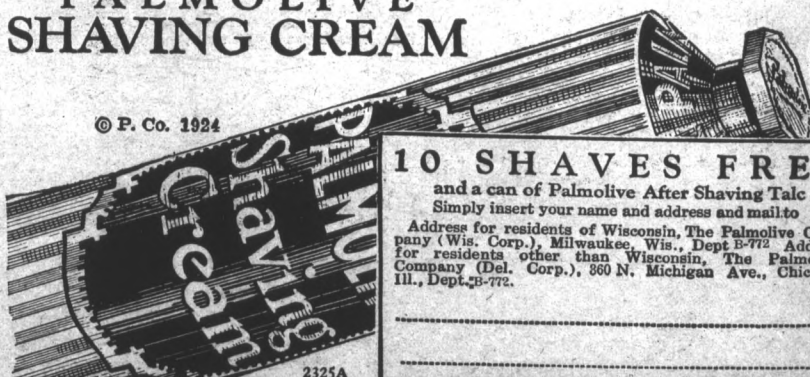
There are new delights here for every man who shaves. Please let us prove them to you. Clip coupon now.

Old-fashioned shaving mugs are no longer used by wise men. They are unsanitary. Germs accumulate in them. Infections often result which roughen the skin. Use delightful Palmolive Shaving Cream, protected from dust and dirt by its sanitary tube.

THE PALMOLIVE COMPANY (Del. Corp.), 360 N. Michigan Ave., Chicago, Ill.

PALMOLIVE SHAVING CREAM

© P. Co. 1924

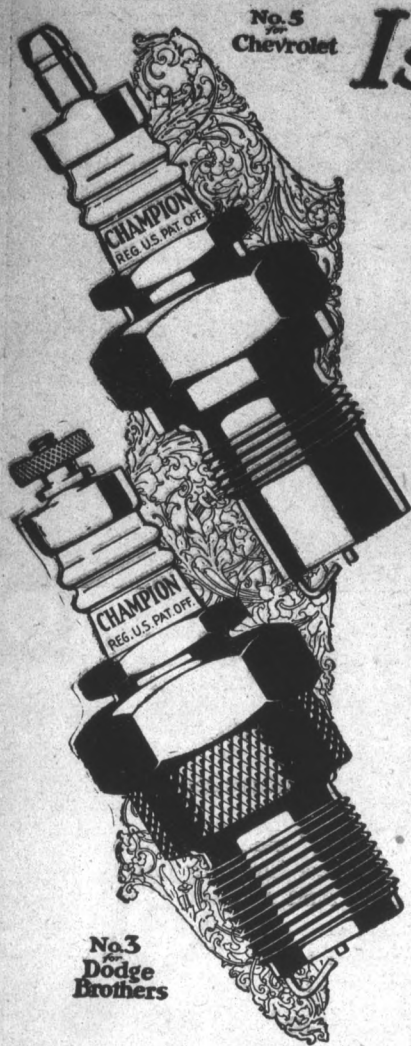


10 SHAVES FREE

and a can of Palmolive After Shaving Talc. Simply insert your name and address and mail to: Address for residents of Wisconsin, The Palmolive Company (Wis. Corp.), Milwaukee, Wis., Dept. E-772. Address for residents other than Wisconsin, The Palmolive Company (Del. Corp.), 360 N. Michigan Ave., Chicago, Ill., Dept. E-772.

2325A

A Full Set Is Economy



You save in gas and oil if you install dependable Champions by the full set at least once a year. Engine performance is greatly improved.

Champion is the better spark plug because of its Double-Ribbed sillimanite core. Compare Champions with other spark plugs and you will readily see how much superior they are.

Champions are fully guaranteed. More than 90,000 dealers sell them. Champion X is 60 cents. The Blue Box 75 cents

Champion Spark Plug Co.
Toledo, Ohio

Champion Spark Plug Co. of Can., Ltd.
Windsor, Ontario

Champion is the standard spark plug for Ford cars and trucks and Fordson tractors. Recognized by dealers and owners for 12 years as the most economical and efficient spark plug. Sold by dealers everywhere.



CHAMPION

Dependable for Every Engine

Riverside Oversize Tires

10,000 Mile Guarantee and You Save 1/3

What more can any other tire do for you? Riverside Oversize Cords will run 10,000 miles—guaranteed—often up to 18,000 miles. What is the use of paying one-third more?

One-third on tires is a big saving. And this saving is sure—because Riverside Oversize Cords are guaranteed for 10,000 miles service on your car.

And this guarantee is fifty-one years old. It has back of it fifty-one years of straightforward dealing.

Quality Gives the Mileage

The big mileage of Riverside Oversize Cords over rough roads is put into them in the factory. It is the mileage built in by quality. High, thick, strong treads—firsts in every particular—built with the largest amount of good live rubber.

This extra Quality of Riverside Cords has made us the largest retailers of tires in this country. One user tells another. Just try Riverside Oversize Cords. You, too, may as well save one-third.

You Don't Risk One Cent

Before you buy any tires send for Riverside. Inspect them. Compare them with tires selling for \$5.00 or \$15.00 more. Then, if you don't find them the equal of any first-quality oversize cord made, send them back. We will refund your money. These prices buy 10,000 miles of service—and more.

CATALOGUE No. 464M00—Be sure to give size

SIZE	PRICE	POSTAGE	SIZE	PRICE	POSTAGE
30 x 3 1/2	\$ 9.75	28c	32 x 4 1/2	\$20.95	45c
32 x 4	16.95	42c	34 x 4 1/2	21.95	48c
33 x 4	17.45	43c	35 x 5	28.75	58c
34 x 4	18.25	43c	35 x 5	29.95	61c

Wire your order. Orders received by telegraph will be shipped the same day C. O. D. Write today to our house nearest you for free Auto Supply Book. Address Dept. 37T.

free—

Send for your copy of this catalogue

Auto Supply Book

"I find your Riverside Cord tires give wonderful service. They have proved to be better than any tire I ever used and I have used some of the most expensive tires on the market. You will find me a strong booster for Riverside tires."
H. J. Armbruster
Urbana, Ohio.

"I have been using Riverside Cord tires for some time and think they are great. I have got more service out of them than any other tires I have ever used. When I need tires again I will buy the Riverside."
Alfred L. McNay
Williamstown, Ky.

"Would say that the Riverside tires are all right. I have been in the Delivery Business for ten years and find that the Riverside Cord tires last longer than other tires, even those costing a great deal more money."
Chas. Cassen
Petersburg, Ill.

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Chicago Kansas City St. Paul Portland, Ore. Oakland, Cal. Ft. Worth New York Atlanta, Ga.

OUR SERVICE DEPARTMENT

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

FAILURE TO SUPPORT.

If a man has a family and does not provide or work to get any clothes for them but makes children do what is done, can anybody compel him to work, or does his wife have to do it alone?—H. L. N.

See prosecutor if husband is able to support family and fails to do so—Rood.

WANTS A SHORT SEASON HAY CROP.

Would you please inform me whether or not Sudan grass will make a good hay crop on well-drained muck land, which produced fine fodder corn last season? Would also like to know how many pounds to sow per acre and how to set the grain drill for Sudan grass seed.—O. W.

Sudan grass should make a good hay crop on well-drained muck which has produced good fodder corn. Sudan grass should be sown the latter part of May or the first of June at the rate of twenty-five pounds of seed per acre. A grain drill set to sow two pecks of wheat will sow approximately twenty-five pounds of Sudan grass seed per acre.

Hungarian millet is one of the best short season hay crops for muck land. Hungarian is naturally adapted to low moist soils and to muck soils. The stems and leaves are somewhat finer than Sudan grass and Golden millet, consequently the quality of the hay is finer and superior to other millets and Sudan grass. Hungarian millet is sown at the same time as Sudan and is usually sown at the rate of thirty pounds of seed per acre.—C. R. Megee, Associate Professor of Farm Crops.

PREFERS SOY-BEANS.

I have about three acres of sandy soil which I would like to sow to soy-beans if you think they would grow on this soil. One-half of this land is dry and the rest is low and a little wet and not tilled. I got a fairly good crop of oats here last year. How are soy-beans sown and how much per acre? Do you think millet or Sudan grass would prove better for hay on this piece of ground and how do you seed that?—H. B.

Would prefer soy-beans as a hay crop under the conditions you mention. Soy-bean hay has much the same feeding value as clover and alfalfa hay, while Sudan grass has much the same feeding value as timothy hay.

Would recommend sowing soy-beans in twenty-eight-inch rows at the rate of thirty-five pounds of seed per acre. The Manchu variety is well adapted to your conditions. The Ito San, Black Eyebrow and Mid-west varieties should also give good results. Soy-beans should be sown the latter part of May. If the low land is inclined to be quite wet and does not dry out readily, Hungarian millet would be a more reliable crop than soy-beans; however, if the land is well dried out by the latter part of May, would prefer the soy-beans.—C. R. Megee.

FARM NOT LIABLE.

A. loans B. money, taking his note endorsed by C. C. and wife own farm by joint deed. C. dies. B. is no good. Can A. collect?—Reader.

The farm is not liable for any of C.'s debts, nor is his widow liable for them.—Rood.

KILLING HOG LICE.

Will you please tell me the most successful way to kill lice on hogs?—R. H.

Take the old, used oil that you have drained from the crank case of your automobile or tractor, dilute it by mixing half with kerosene and apply with sprinkling can or a brush to the entire body of the hog. It is cheap and very

effective, and perhaps as satisfactory as any of the patent dips you will find.

Clean the sleeping quarters thoroughly and give them a treatment of the same sort, and repeat the entire operation in about ten days to get any young ones that later have hatched from nits which the oil may not have destroyed.

Be sure to clean up on the lice before time for the sows to farrow, else the lice will take the joy out of life for both you and the pigs.—P. P. Pope.

LET ALFALFA KILL THE THISTLES.

I have a patch of Canada thistles on my farm. It is clay and gravel loam. Will alfalfa kill out the thistles? What time of year do I want to sow the seed to kill the thistles?—R. V.

Seeding alfalfa is one of the best ways of eradicating Canada thistles. I would suggest that you summer-fallow and seed to alfalfa during late June or early July. I would not use a nurse crop. Summer-fallowing will tend to hold the thistles in check until the alfalfa has made a start. The thistles will be killed out by the frequent cuttings of the alfalfa. However, the alfalfa will do little toward the eradication of the thistles the first season.

In securing a seeding of alfalfa only northern grown seed should be used. The Grimm and other variegated strains are well adapted to Michigan conditions. The seed should be inoculated and the seed-bed should be well firmed. Acid soils should receive an application of lime.—C. R. Megee.

CAN RECOVER DAMAGES.

A tenant rents a farm for one year from March 1, 1923, to March 1, 1924. The tenant's time is out, but he holds over until April 20 for no particular reason but to be mean. Can the landlord collect rent for use of house for the month of April if he can get anything to collect? Is there no way for the landlord to get even with such people?—J. C.

The tenant who held over is liable at the option of the lessor for another year's rent, or the lessor may recover damages for the holding over as a trespass.—Rood.

THERE IS NO LIABILITY.

My son, age nineteen, bought a used Ford without my consent. It was supposed to be in A-1 condition. After using it a few weeks he found an old break in a spring which the boy tried to fix and got his hand crushed so badly that he will be unable to attend his job for at least two months. It means a great loss to us. Can I sue the auto dealer for damage for the old break in the spring, and also for selling the car to my son without my consent? Auto dealer asked him his age, but did not ask me if it was all right.—G. C. S.

There is no liability by the dealer to the parent for selling the car to the son, nor does there appear any fact to cause the dealer to suppose that the son would get his hand into a broken spring, nor to suppose that the son was unable to judge for himself of the danger of the machine in that respect. The parent having no contract with the dealer would seem to be without remedy.—Rood.

CITIZENSHIP.

Has a person of legal age, and born in the United States, a right to vote when his or her father and mother are not citizens?—Subscriber.

By the express provisions of the United States Constitution all persons born in the United States are citizens thereof, regardless of the citizenship of their ancestors.—Rood.



Fixing Up the Old Home

IT is hard to tell in a few words the effect of a little thoughtful attention to the yard and home. By drawing upon our imagination, however, we can feel something of the inspiration gained by the folks who wrote the following letters. That dried-up, washed-out, miser who says it does not pay, is wrong. It does, and that in hard money as these folks testify. Besides, it pays a big dividend every day in an abundance of wholesome satisfaction:

WHAT A LITTLE WORK BROUGHT.

THE natural beauty of the location of our homestead should have made it attractive, but because of dilapidated fences, lack of shrubbery, holes in the lawn and mud at the doorways, it was not. So my first work after gaining possession, was the removal of some of the fences and the straightening of others, the planting of shrubbery which I obtained for the asking, building gravel walks from the entrances and leveling the lawn, all of which cost me only my labor. It has resulted in an improved appearance which now draws favorable comment from passersby and, in the end, improves the value of the whole farm.—John Burton.

SMALL COST BRINGS BIG RESULTS.

WHEN we moved on our present farm, the front yard was filled with stone which were once the wall of an old hall. The yard was also very uneven. We removed such stone as could not be covered, filled in with dirt, making the yard level. Trees and shrubs were planted, while a vine, supported by wire, forms an arch over the gate. Evergreen trees now form a row along the driveway. Trees and brush, not touched for years, were pruned. An old silo pit, from which the silo had been removed, was filled with earth and planted to flowers and vines. This has brought about a wonderful transformation in our home.—J. H. Davidhizar.

CLEANS UP.

I MOVED on this farm three years ago. While the buildings were good, the yard was literally filled with old machinery and other rubbish and inclosed with an old stump fence. I moved the machinery out of sight, burned the fence and raked the yard. Some shade trees were set out and old rose bushes pruned. When the grass started, we had the satisfaction of knowing that our neighbors appreciated the change.—J. Gould.

MUCH COMFORT COMES FROM A FEW PACKETS OF SEED, ETC.

THE yard of an old neglected home was plowed and graded. The house was painted. A hedge of lilacs were planted on this slope. At the north side of the house shrubs that did not require much sunshine were planted. Along the borders, spirea were put in. Near the house a bed of giant pansies resulted from two five-cent packets of seed. On the ends of the front porch boxes of climbing nasturtiums were placed. These were supplied from three packages of seed. Maples from the woods were also planted in the yard, while a few rosebushes, secured from a generous neighbor, found their proper place in the arrangement. While the results were transforming, it cost us just a little more than a day's work with the team and the nec-

essary farm tools. It has brought us much comfort.—Mrs. Alex. Kerr.

A RE-BUILT FARM HOUSE.

NEVER would you suspect that there was an old house within the convenient farm dwelling we now live in. When we bought this farm ten years ago, I could just hear some old trellises calling out for vines to twine around them. Soon I had clematis and honeysuckle running riot over these supports. How much they did add to the appearance of our home.

Spirea were planted in front of the porch with ferns between. The spirea is beautiful in the spring with its sprays of white blossoms, while the

Why a Camera?

IN thousands of homes to which this journal makes weekly visits cameras are owned. Are they of any value to the farmer and his family? The Handy Man would like to know. Just write a letter to him on the value the camera has been to you, address to the Michigan Farmer, Detroit, and mail on or before May 14. A dollar will be sent to each of the writers of the five best letters.

ferns stay green until the fall frosts are here. A rose garden has also been planted at the rear of the house. From our dining-room windows we can see flowers in bloom from the earliest tulips to the latest chrysanthemums. I love the perennials and am using more of them every year, as they require less care than the annuals.

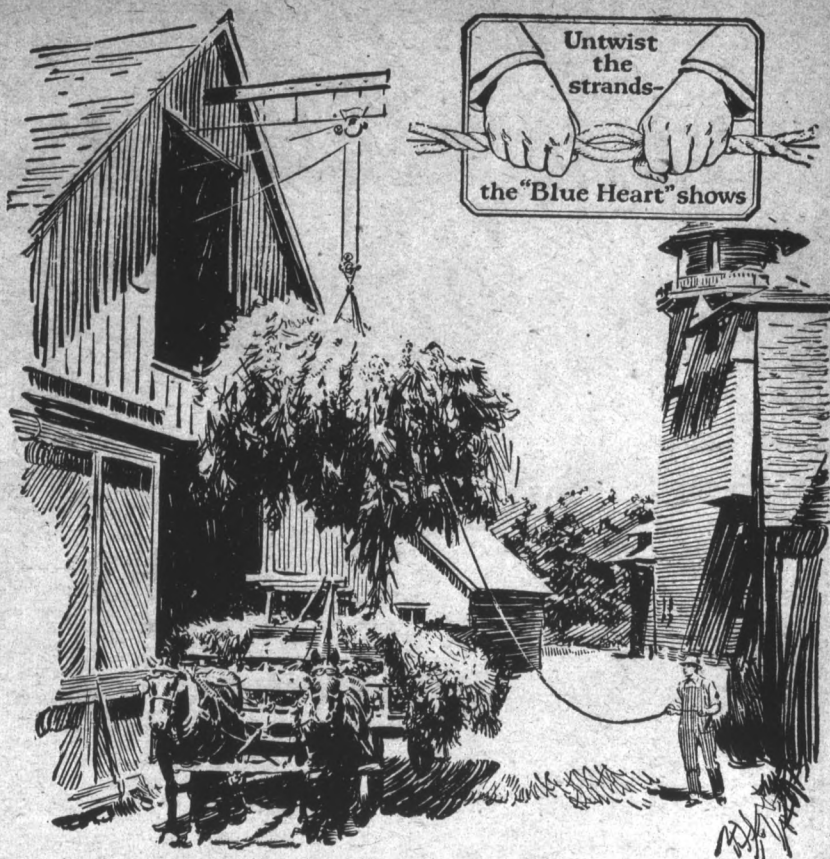
Through replacing the little porch with a deep spacious one that extends across the north side of the house and around to the east side, we secure a great deal of enjoyment. In remodeling the old house it has given us a handy kitchen with a dumb-waiter, and a basement that occupies nearly the full floor area inclosed with high, dry, smooth walls. Upstairs there are three bedrooms and a bath and sewing-room. Closets and draws are abundant. Furnace heat, electric lights and running water complete the modern tone.

We thought at first we could not afford to make these changes, but by doing much of the work ourselves, it has cost us comparatively little and we are glad we did it. One can find more elaborate farm houses, but every dollar in this came from our hundred-acre farm.—J. E. Miller.

BATHE THE SEED POTATOES.

ALL seed potatoes should be treated in a corrosive sublimate bath to kill potato scab and blackscurf. Use four ounces of the corrosive sublimate in thirty gallons of water. Soak the potatoes in the solution for one hour. If there are many potatoes to be treated in the solution, enough water should be added after each bath to make the solution its original volume and two-thirds of an ounce of corrosive sublimate should also be added. Use no metal containers with this solution. Wooden vessels are best. This material is also very poisonous and should not be left where animals may consume it.

One can not make bricks from straw, nor can one produce good crops from poor soil.



Long-wearing rope pays for itself

Not the most feet of rope per dollar, but the longest rope service! That—successful farmers more and more realize, is the economical way to buy rope.

For even if you could get two cheap lines for the price of one good rope, you would still have the trouble of changing them—and you couldn't rely on either for dependable wear.

So to save yourself trouble and money, get a good rope—one that will pay for itself in long, dependable service. Here's how you can tell it, before you buy. Untwist the strands. Look for the thin blue thread marker—the "Blue Heart"—running between the strands. Then you may be sure you have a rope that in the end will cost you less.

What the "Blue Heart" signifies

The "Blue Heart" marker means that the rope is genuine H. & A. "Blue Heart" Manila Rope spun by skilled rope makers from high grade, pure selected manila fibre.

It means also that in any size, on any job, the rope will wear longer and deliver without fail the strength you have a right to expect. For the selected fibres of H. & A. "Blue Heart" Manila Rope are drawn, spun, laid and properly lubricated so as to insure the smooth working of every fibre, yarn and strand.

Buy rope scientifically. Know what you are getting. Untwist the strands and look for the "Blue Heart"—our registered trade mark that assures you of dependable rope value.

For sisal rope

For other jobs where a high-grade sisal rope is wanted, use the best—H. & A. "Red Heart" Sisal Rope—spun from

selected sisal fibre by the same skilled rope makers.

Whatever may be your use for rope you will find an H. & A. brand of cordage to meet your requirements.

GUARANTEE

H. & A. "Blue Heart" Manila Rope is guaranteed to equal in yardage and exceed in tensile strength the specifications of the U. S. Government Bureau of Standards. Any H. & A. "Blue Heart" Manila Rope found not to be as represented will be replaced.

Special offer

The coupon below with 25c will entitle you to our special Halter Lead made from H. & A. "Blue Heart" Manila Rope. It is 1/2 inch in diameter, 7 feet long, and is fitted with a snap at one end. It is offered to introduce to you the great strength and wonderful wearing qualities of H. & A. "Blue Heart" Manila Rope.

If your dealer does not carry H. & A. "Blue Heart" and cannot supply you with this special Halter Lead, fill out the coupon below and mail it to us with 25c, coin or stamps, and your dealer's name. A Halter Lead will be sent you prepaid at once.

The Hooven & Allison Co.		M.F.5-10
Xenia, Ohio		
Gentlemen:		
Enclosed is 25c for which please send me one H. & A. "Blue Heart" Manila Halter Lead.		
My Name.....		
Address.....		
My Dealer's Name.....		
Address.....		

THE HOOVEN & ALLISON COMPANY
"Spinners of fine cordage since 1869"

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H&A "Blue Heart" Manila Rope

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1924, The Hooven & Allison Company

Reynolds Shingles

are Nature's own covering.

Thoroughly saturated with asphalt and surfaced with crushed slate, Reynolds Shingles make a roof proof against the effects of heat, cold, wind, rain and snow.

They are Fire-Safe—flying sparks cannot ignite them.

Your farm buildings deserve such roofs. They are durable, beautiful and economical.

Sold by lumber dealers. Write us for the name of the nearest to you.

H. M. Reynolds Shingle Company

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Michigan



WILLIAMS

*More than a million
Ford owners are using it*

In just a few years, more than a million—yes, almost two million Williams Accelerators for Fords have been sold.

This is proof of Williams quality. And, it is proof of the fact that you too would find a Williams Accelerator handy and comfortable and economical to drive with.

All you have to do is to screw the pedal to the floorboard just to the right of the brake—slip the carburetor control, and flexible control wire

into place. That's all there is to it. The whole job takes less than fifteen minutes.

Get a Williams Accelerator from your dealer or garage today. If they haven't got it—write us direct and we will see that you are supplied.

Williams Accelerators are made in two models, "Regular" at \$3.00—"Junior" at \$1.50. Packed in individual orange and black boxes. Full directions and chart with each accelerator

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25th and POTRERO AVENUE
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**ACCELERATORS
FOR FORDS**

FREE: Write for illustrated booklets showing and describing these wonderful Ford foot throttles.

Cloverland News

WILL PREACH DAIRY DOCTRINE.

IN June five Upper Peninsula railroads will conduct a dairy special train throughout the district, for the purpose of demonstrating the value of high-grade and pure-bred dairy cattle. Men from the Michigan Agricultural College, the Upper Peninsula Development Bureau, and several national breeders' associations will supervise these demonstrations.

The train will be assembled at Stephenson, Menominee county, about June 2. The route will include stops at Carney, Hermansville, Norway, Segola, Iron River, Crystal Falls, Mass, Bark River, Sault Ste. Marie, Brimley, Moran, Newberry, Macmillan, Chatham, Skandia, Negaunee, Republic, Houghton, Chassell, Pelkie, Baraga, Covington, Kenton, Bruce's Crossing, Topaz, Ironwood and Wakefield.

The train will be composed of three baggage and one passenger car, a diner, sleeper and flat-car. The flat-car will be used for demonstration purposes on this train and representatives of breeders' associations will point out the characteristics of each breed. It is also expected that a car of pure-bred stock will accompany the train to be sold at auction to farmers wanting to make immediate purchases.

LINING UP THE POULTRY BREEDERS.

IN Dickinson county, according to the agricultural agent, Mr. Arthur Lonsdorf, 124 farmers have flocks of chickens of distinct breeds. Of these, seventy-three farmers only have pure-bred poultry. White Leghorns are the favored breed in Dickinson. The flocks range from 100 to 300 birds. Mr. Lonsdorf is mailing to poultry breeders a Michigan Agricultural College bulletin on poultry culture.

USE TREES TO PROTECT ROADS.

IRON county contemplates establishing wind-breaks along its highways through the planting of evergreen trees. The county has already purchased some timber-lands on its highways for the same purpose, as well as for the preservation of timber that has scenic value. The new policy will require widening the right-of-way of the roads to enable the planting of evergreens to a depth of fifty feet or so. It is believed that Iron county's example has value for other counties in the deep snow country.

WILL PUSH TB WORK.

A SERIES of fifteen dairy-alfalfa meetings was held recently in Menominee county, under the direction of Karl Knaus, county agricultural agent, and Mr. J. G. Wells, M. A. C. dairy specialist. Much interest was reported in the growing of alfalfa, and the agent predicts a doubling of the alfalfa acreage in Menominee this year. Fifty-six farmers expressed an interest in belonging to a cow-testing association and forty-five expressed a desire to join a bull association, it is stated. Mr. Wells will try to establish at least one cow-testing association in Menominee county in May.

In Marquette county the testing of cattle for tuberculosis has been started in the Michigamme district, where five per cent of the animals tested were discovered to be reactors. They will be shipped to Milwaukee for killing. Mr. F. C. Colby, assistant state veterinarian, is in charge of these tests. The force will be enlarged later, it is announced. Marquette is a large county—the largest in the state—and it will take some time to cover it. Schoolcraft tests will start about May 1.



For Every Kind of Spraying

This handy sprayer fills the bill—Sprays fruit trees, gardens, flowers, shrubs, vegetables, grapes, berries, cotton. For white-washing poultry houses, cellars, fence posts, and trees—for spraying disinfectant, fly spray, Carbola in poultry houses and stables—for washing windows, automobiles and buggies.

SMITH BANNER
No. 22 COMPRESSED AIR SPRAYER

is made right—strong, efficient and handy—designed to do the work as it should be done. No effort at all to use it. A few strokes of the pump compresses air to discharge contents of the tank—carried on shoulder strap or by handle—handy nozzle, opens and cuts off instantly—throws long distance fine mist or coarse spray.

Ask your dealer to show you this sprayer—examine it—you will be surprised that it can be sold at so low a price—Don't accept a substitute—there are imitations but only one No. 22 Banner—insist on getting the best—most hardware and implement dealers carry them—if yours does not, write us and we will see that you are supplied. Send for free catalog of complete line.

D. B. SMITH & CO.
40 Main Street, Utica, N.Y.

The name SMITH on a sprayer is a guarantee of lasting quality and satisfaction, or money back.



HALL'S
NICOTINE SULPHATE

Kills
aphis
[plant-lice]

HALL TOBACCO CHEMICAL CO.
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WITTE LOG & Saw

Cuts down trees and saws them up FAST—one man does the work of 10—saws 10 to 25 cords a day. Makes ties. A one-man outfit. Easy to run and trouble-proof. Thousands in use. Powerful engine runs all other farm machinery. Uses all low priced fuels.

Easy Payments Pay only a few dollars down and take a year for balance of low price. Make your own terms. **FREE** Just send name for full details, pictures and low prices. No obligation by writing. **WITTE ENGINE WORKS**
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7197 Empire Building, Pittsburgh, Pa.



The Famous
YANKEE

\$2

A NEW Ingersoll The Improved YANKEE, \$2

THE New Improved YANKEE is dependable, as always, but in addition it is a very handsome watch—with new features of grace and beauty.

It has the antique bow and crown, new hands and dial, damasked back plate, it is more closely cased and in general it has the appearance of a higher priced watch.

Ingersoll

Models \$2 to \$10

THE CROSSING VEGETABLES ARGUMENT AGAIN.

I SUPPOSE it is not fair for so many to go against one, but as they say, "Everything is fair in love and war." So here I am again, not disputing, but taking sides with a few other Dutchmen regarding their crossing of "garden truck."

A few years ago I was employed as assistant gardener at a certain state institution near Detroit. My boss gardener, having the idea that he knew all about such work, gave orders for us to plant our cucumbers alongside of summer squash. This I knew to be wrong; but, of course, not having a stiff enough argument (Big Brother) to knock some sense into him, I did as he told me, with the result of "mixed breeds."

I do hope that some of these book farmers will get down to facts, which they can only obtain through the hard teacher, "Experience."—J. J. Hillman.

GET ACQUAINTED WITH YOUR GARDEN FRIENDS.

THERE are some garden friends we recognize, but there are many others we do not. We give the toad his welcome, but we will try our best to kill the wasps, and will turn over pieces of boards or rocks to give the chicks a chance at the big black bugs beneath, and in so doing destroy insect-eating friends as valuable as the toad. The wasps themselves do not eat insects, but live on nectar from flowers and fruit juices, but the larva are fed on insects which the wasps gather and store away for them, first stinging them to paralyze them until the eggs hatch and the little worms are ready for them.

The mud-dauber is the handiest wasp for you to examine a nest, but all the wasps and hornets store insects in their particular kind of homes and many of them store the most destructive worms we have to fight, and if you will note the number of spiders in a mud dauber cell you will have an idea how many insects it takes to feed one larva until it is ready to become a wasp.

Not only do we have large wasps, but there are very small wasps hardly larger than gnats, that lay eggs on worms and insects, and when these eggs hatch the larva eat the insect to which they are attached. I have seen them on tomato worms, looking like small oval white seeds, and when you find a worm thus afflicted do not kill it, for the tiny larva will do that, and if you destroy the larva of the wasps you will prevent their coming out and laying eggs on other tomato worms, for each wasp has its particular food supply and as they increase very much faster than the food supply they will gain fast on it.

The real enemy that kills off the army worms when they start on a march is a tiny gnat-like fly that lays eggs on its body. As long as the army worm stays at home, hiding in the soil during daylight, like the cutworm it is safe from them, but it soon finds its death on the march. Of course, there are other enemies to these pests, but this is one of the most effective.

The ground beetles fed on cutworms and army worms, and many other such pests, and their larva do likewise. Each larva is fitted with a stout pair of pincers on the sides of its head with which it holds the worm while it eats. They are queer, stiff-jointed worms about an inch long, and larger at one end where the hard head is seen with the curved nippers always ready. Besides these beetles the lady bug beetle and its larva will devour an enormous number of plant lice or aphids.

Moles will eat thousands of grubs that are feeding on the roots of plants, but they injure plants some in doing it, and the same is true of the shrews, which make runs much like the moles.

DAY IN AND DAY OUT

Day in and day out Dodge Brothers Motor Car serves its owners faithfully and at low cost.

This is because Dodge Brothers have consistently built their product more staunchly than strict manufacturing practice requires.

Employing only the finest materials, they have insisted upon an exceptional margin of excess strength in every part that takes a major strain.

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The WINDMILL with a RECORD



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The Auto-oiled Aermotor is the Genuine Self-Oiling Windmill, with every moving part fully and constantly oiled.

Oil an Aermotor once a year and it is always oiled. It never makes a squeak.

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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You do not have to experiment to get a windmill that will run a year with one oiling. The Auto-oiled Aermotor is a tried and perfected machine.

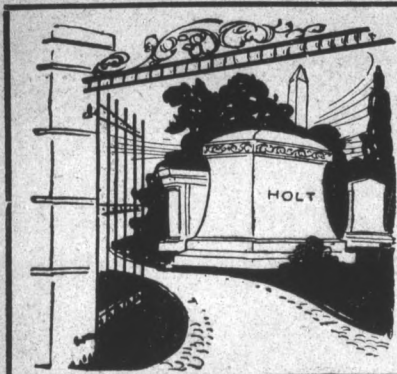
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R.W. CARR GRANITE COMPANY
107 South Ave., Battle Creek, Mich.

The Folks Who Need Farm Loans

(Continued from page 663).

ways makes the best yellow butter," as she picks nervously at the fringe of, yes, it is the truth, a real Paisley shawl. Mel knows this testimonial of old Spot's excellence by heart—he has had a mortgage on her for fourteen years, one that all the rich milk and the best yellow butter could not budge, not even with the egg money from the "thirty-seven Plymouth Rock hens, all increase of same," as it is written down as the list continues. "Any roosters?" asks Mel, who forgets nothing. "Three roosters," says old Obed, resignedly, and adds "two turkeys, three ducks, a pair of guineas, and all increase of same."

Can you beat it—and this time the little red book says seven per cent on \$783.67 that this old infirm man and his toil worn, dispirited wife, hanking on with pathetic desperation to the remnants of their hope, must pay in eight months. Obed is getting nearly up to seventy and Mel is afraid that the stuff wouldn't bring any too much at a sale, so he hints pretty strongly that as "money is very tight just now" he can't say that he will be able to let it go another time, but he will this time, at least, as he doesn't wish to turn down an "old friend." For all this Obed was advanced from Mel Trumper just \$150 in cash. That was fourteen years ago.

Why do these people stand it? Don't

they know they are being robbed? Of course they do, but they must have the money, and they don't know where else to get it. They are honest and offer security double the value of the loan. Can't they get it at the "Farmers' and Merchants' Bank" downstairs? I should say not. Once caught in Mel Trumper's net, the bank won't help them. Mel is a good fellow and a stockholder in the bank—the bank won't take his customers away from him. "Certainly not," says Herbert Huntington, the cashier, who is a Sunday school superintendent and evidently believes that the poor you have always with you, "they are not quite the class of customers the bank desires." "Mell, no," says Bill Baldwin, the bank's president, who is not a Sunday school, but a fast horse man, "let Mel have 'em."

Should these unfortunates turn to, say their more prosperous neighbor, Mr. Joseph Conner, for instance, they are met with solicitous sympathy (but nothing more). "I am really very sorry that I can't accommodate you, but the fact is, I am buying a block of stock (he swells up like a poisoned pup as he says these words) in the "Greater Detroit First Mortgage Gold Bond Building and Loan Association" that takes up all my ready money—and I haven't sold my wheat yet as I am holding it to come back to two dollars."

So the real facts of the matter are, prosperous Conner deposits his money (what he don't send away to help build up greater Detroit) with the "Farmers' and Merchants' Bank" and gets four per cent on it, the bank lets it to Mel Trumper for seven per cent, Mel in turn, loans it out to the Schnackbergers and Obed Jones, of the county, for the devil-only-knows-what per cent.

Yes, indeed—but there are those who say that Mel don't get it all, no siree—there comes a time when he has to settle up, not with the bank as a bank, but with sanctimonious Herbert Huntington and horsey Bill Baldwin personally—just a little understanding between friends for their mutual admiration and profit, don't you know. What mean things some people will say!

Just the same, I can't help but think that there are some farmer folks in this world that need the service of a federal farm loan just as well as those who complained that the limit of \$10,000 was a serious handicap on the financial development of the agricultural resources of the nation.

WATCH THE SEED CORN.

TESTS show that crib corn will be practically useless for seed this year. No farmer is justified in planting corn that has not been tested.

Careful growers of corn are finding that much of their seed will not grow. Sixty-five of these growers made application to the Michigan Crop Improvement Association to have their corn entered as certified. Tests, however, ruled out all but fifteen of the samples submitted. The stocks of these fifteen farmers will plant only ten thousand acres. The man who has a supply of corn on hand from 1922 should make tests with a view of using it instead of corn from last year.

WHY LABOR LEAVES THE FARM.

AN investigation of the farm labor problem in Massachusetts has led the Department of Agriculture economists to conclude that its solution is in better housing conditions for farm hands and their families, steady employment, and payment on the basis of skill and earning capacity. It was found that the farm hands in Massachusetts have meager education, have no savings and no plans for the future.



Figure it out NOW

The Hartford Fire Insurance Company specializes in farm insurance. Its agents will gladly cooperate with you in making your insurance policy cover practically every risk you take.

Write for a Hartford farm inventory book. "My Property" is designed to help you figure out the kinds and value of your property. It is helpful in enabling you to arrive at the kind and amount of insurance you need to be fully protected against loss. The Hartford agent is a good man to know. He charges no fees for his services. The booklet will be mailed upon request. It is free. Write for your copy today.



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WORLD EVENTS IN PICTURES



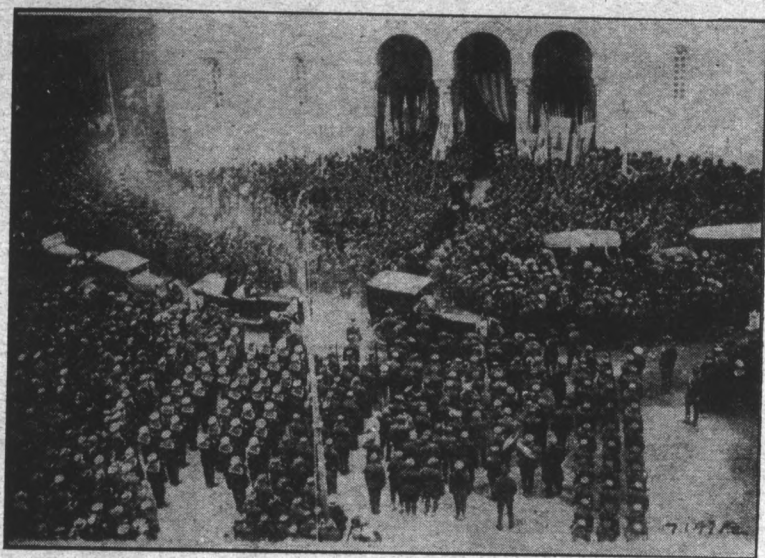
Howard Carter, American archaeologist and discoverer of King Tut's tomb, has returned to the U. S.



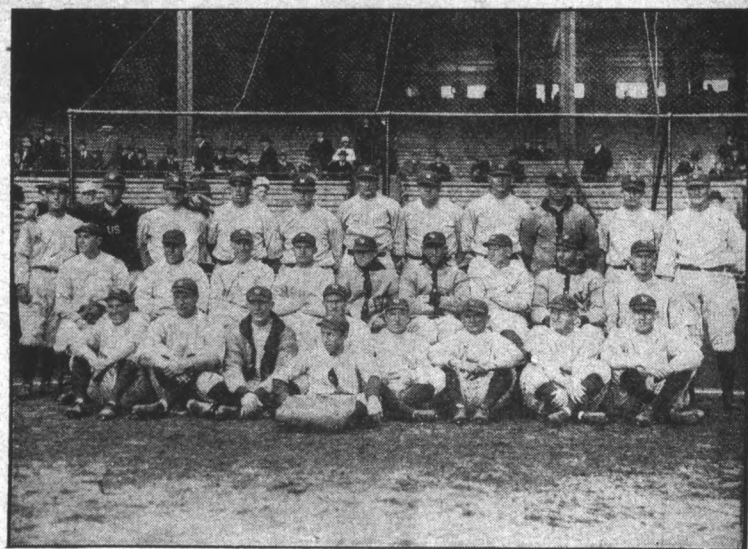
Organized and with team-work perfected, this woman's polo team of Fort Myer, Virginia, challenges matches from any other women's polo team in the world.



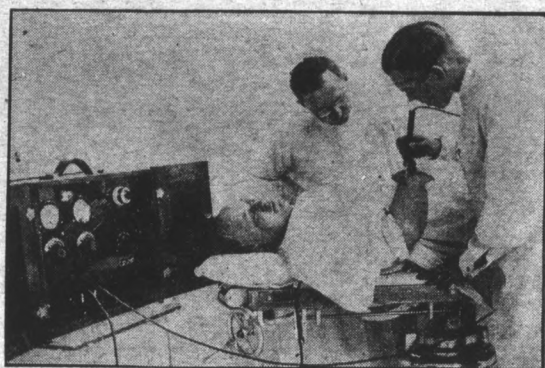
Commander A. B. Randall, U. S. N., steers a vessel with one finger with a gyro-compass.



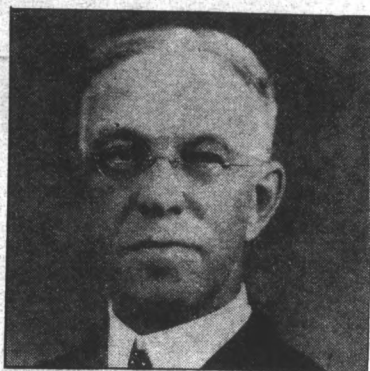
Greece has voted for the Republican form of government by almost an unanimous vote, overthrowing the Dynasty and blasting the last faint hopes of exiled King George II.



This was the first time since Miller Huggins took over the piloting of the Yankees, that these New York players were photographed in a group at the opening of the season.



By means of a radio knife, invented by Louis Schmidt, M. D., operations can be performed with very little loss of blood.



H. P. Davis has explained how New Yorkers can tune in with London radio stations.



In his suitcase bassinet, Charles Lewis, Jr., traveled from Vienna to New York. Mrs. Lewis says it is a wonderful convenience.



Maj. John F. Hylan, of New York, was well flanked by a "stage beauty nine" when he tossed off the first ball to start the 1924 baseball season in New York.



Besides being capable of a speed of thirty miles an hour on level ground, Uncle Sam's new tractor can travel under water as high as the driver's chin.

I MERELY wanted to be sure. But to go on: "Then I thought of a way to get what I wanted from Miss Jierdon. This was several months afterward, just before the trial. I argued that I was sure young Houston hadn't committed the murder, and that if some woman could testify to the fact that Langdon had that mallet, it might free Houston, and make a hit with the old man and that maybe he would make good on his promises. I did it pretty skillfully and she listened to me, largely, I guess, because she was in love with me. Anyway, it ended with her testifying at the trial in a sort of negative way. I didn't care about that—it was something else I wanted. Later, after the old man had died, I used it. I wanted her to switch some papers on young Mr. Houston for me, and she bucked against it. Then I told her that she had done worse things, that she had perjured herself, and that unless she stayed by me, she could be sent to the penitentiary. Of course, I didn't tell her in those exact words—I did it more in the way of making a criminal out of her already, so that the thing she was going to do wouldn't seem as bad to her. I wasn't foolish enough to threaten her. Besides, I told her that the mill should have been rightfully mine, that the old man had lied to me and gotten me to work for him for years at starvation wages, on promises that it would be mine some time, and that he had neither taken me in partnership, nor left it to me in the will. She got her cousin to help her in the transfer of the papers; it was a lease and stumpage contract. He affixed a notary seal to it. The thing was illegitimate, of course. Shortly after that, young Houston came out here again, and I got her to come too. I wanted to see what he was up to. He fired me, and while he was in Denver, and Renaud away from the mill, I got Miss Jierdon and took her for a walk, while one of the other men kept watch for the cook who was asleep. But she didn't wake up. On the way back, Miss Jierdon saw that the mill was burning, and I directed her suspicion toward Renaud. She accused him, and it brought about a little quarrel between Miss Jierdon and young Houston. I had forced her, by devious ways, to pretend that she was in love with him—keeping that perjury thing hanging over her all the time and constantly harping on how, even though he was a nice young fellow, he was robbing us both of something that was rightfully ours. All the time, I had dodged marrying her, promising that I would do it when the mill was mine. In the meantime, with the lease and contract in my hands, I had hooked up with this man here, Blackburn, and he had started a mill for me. I guess Miss Jierdon had gotten to thinking a little of Houston, after all, because when I forced her to the final thing of telling some lies about him to a young woman, she did it, but went away mad at me and threatening never to see me again. But a little while later, she came back. Our relations, while she had been at the Houston camp, hadn't been exactly what

they should have been. Miss Jierdon is dead—she had stayed in a little cabin in the woods. I had lived with her there. About ten days ago, the baby died, while I was laid up at camp with a sprained hip. To-day I went there to find her dead, and while I was there, Renaud and young Houston caught me. This is all I know. I make this statement of my own free will, without coercion, and I swear it to be the truth, the whole truth, and nothing but the truth, so help me God."

The little lobby milled and buzzed, drowning the scratching of the pen as

form of Ba'tiste Renaud, grave, but rewarded at last in his faithful seach; the radiant-eyed Houston, free with a freedom that he hardly believed could exist; and a girl who walked to the window and stood looking out a moment before she turned to him. Then impetuously she faced him, her eyes seaching his, her hands tight clasped, her whole being one of supplication.

"I'm sorry," she begged. "Can you—will you forgive me?"

Boyishly Barry Houston reached forward and drew away a strand of hair that had strayed from place, a spirit

The White Desert

By Courtney Ryley Cooper

"THERE'S A REASON"

By J. Roy Zeiss

Oh, boy! just to fish again
In the lakes of Michigan,
Where the perch 'n wall-eye pike
Bass and blue-gills 'n the like
Are always on parade.

Where fishin' is a pleasure,
Where joys in fullest measure
Tend the man with rod and line;
Where your catch delights the eyes,
Where they raise 'em for their size—
Where they bite most all the time.

Where the lakes are deepest blue,
Where the sun is shinin', too,
And the songbirds sing and call;
Where the air is smellin' sweet,
Where the fishin' can't be beat—
Nor improved upon at all!

I'd rather be a fishin' man
Right up here in Michigan
Than to charter boat and sail
And go fishin' for a "whale"
In "deep-sea" escapade.

a trembling man signed the confession, page by page. Then came the clink of handcuffs. A moment later two figures had departed in the dusk—the sheriff and Fred Thayer, bound for the jail at Montview. Houston straightened, to find a short, bulky form before him, Henry Blackburn.

"Well?" questioned that person. "I guess it's up to me. I—I haven't got much chance against that."

"What do you mean?"

"Simply this," and the bulky Blackburn drew a nervous, sweating hand across his brow. "I ain't above dealing with crooks, I'll admit that. I've done a few things in my life that haven't been any too straight, or any too noble, and when Thayer came to me with this contract and lease, I didn't ask any questions. My lawyer said it was O. K. That was enough for me. But somehow or other, I kind of draw the line at murder. I'm in your hands, Houston. I've got a mill up there that I've put a lot of money in. It ain't worth the powder to blow it up now—to me anyway. But with you, it's different. If you want to make me a fair offer, say the word, and I'll go more than half-way. What say?"

"Is to-morrow time enough?"

"To-morrow—or the next day—or the next week. Suits me. I'm in your hands."

Then he went on, leaving only three figures in the lobby,—the bent, silent

of venture in his manner, a buoyant tone in his voice.

"Say it again. I like it!"

"But I am—don't you believe me?"

"Of course. But then—I—I—" Then he caught her hands. "Will you go with me while I telegraph?" he asked in sudden earnestness. "I want to wire—to the papers back in Boston and tell them that I've been vindicated. Will you—?"

"I'd be glad to."

They went out the door together, Houston beaming happily downward, the girl close beside him, her arm in his. And it was then that the features of Ba'tiste Renaud lost their gravity and sorrow. He looked after them, his eyes soft and contented. Then his big hands parted slowly. His lips broke into a smile of radiant happiness.

And it was with the same glad light in his eyes that three months later Ba'tiste Renaud stood on the shores of Empire Lake, his wolf-dog beside him, looking out over the rippling sheen of the water. The snow was gone from the hills now; the colors were again radiant, the blues and purples and greens and reds vying, it seemed, with one another, in a constantly recurring contest of beauty. Afar off, logs were sliding in swift succession down the skidways, to lose themselves in the waters, then to bob

along toward the current that would carry them to the flume. The jays cried and quarreled in the aspens; in a little bay, an old beaver made his first sally of the evening, and by angry slaps of his tail warned the rest of the colony that humans were near. Distantly, from down the bubbling stream which led from the lake, there sounded the snarl of giant saws and the hum of machinery, where, in two great mills, the logs traveled into a manufactured state through a smooth-working process that led from "jacker" to "kicker," thence to the platforms and the shotgun carriages; into the mad rush of the back saws, while the rumbling rolls caught the offal to cart it away; then surging on, to the edgers and trimmers and kilns. Great trucks rumbled along the roadways. Faintly a locomotive whistled, as the switch engine from Tabernacle clanked to the mills for the make-up of its daily stub-train of lumber cars. But the attention of Ba'tiste Renaud was on none of these. Out in a safe portion of the lake was a boat, and within it sat two persons, a man and a woman, their rods flashing as they made their casts, now drawing slowly backward for another whip of the fly, now bending with the swift leap of a captive trout. And he watched them with the eyes of a father looking upon children who have fulfilled his every hope, children deeply, greatly beloved.

As for the man and the woman, they laughed and glanced at each other as they cast, or shouted and shrilled with the excitement of the leaping trout as the fly caught fair and the struggle of the rod and reel began, to end with another flopping form in the creel, another delicacy for the table at camp. But at last the girl leaned back, and her fly trailed disregarded in the water.

"Barry," she asked, "what day's to-morrow?"

"Wednesday," he said, and cast again in the direction of a dead, jutting tree, the home of more than one three-pounder. She pouted.

"Of course it's Wednesday. But what else?"

"I don't know. Let me see. Twentieth, isn't it?"

This time her rod flicked in mock anger.

"Barry," she commanded, "What day is to-morrow?"

"I give it up," came after deep thought. "What day is to-morrow?"

She pressed tight her lips, striving bravely for sternness. But in vain. An upward curve made its appearance at the corners. The blue eyes twinkled. She laughed.

"Foolish!" she chided. "I might have expected you to forget. It's our first monthiversary!"

THE END

Phineas Peabody has got a Three-in-One automobile. He parks it near the front porch under the maple tree and it serves as a porch swing, davenport and a flivver. Phineas is careful of his money for he is saving for one of those new ventilated chicken hotels that Foreman invented.

AL ACRES—Looks As If Al Will Have To Build a Bigger Hen Coop

By Frank R. Leets



**Always Look for
the Gold Seal**

You will find the Gold Seal shown below (printed in dark green on a gold background) pasted on the face of every guaranteed *Gold-Seal* Congoleum Rug. The Gold Seal pledges absolute satisfaction or your money refunded and protects you against substitutes.



**For the Sun Parlor—
An Attractive, Durable,
Easily Cleaned Congoleum Rug!**

What if water does drip from the fernery! This housewife has a *Gold-Seal* Congoleum Rug in the sun-parlor and doesn't need to worry about soiling or damaging her floor covering.

Waterproof—Seamless

Congoleum Rugs are waterproof. Dirt and liquids can't penetrate their smooth, seamless surface. A few strokes of a damp mop will clean and freshen them in a moment. How different this is from the tiresome sweeping and beating which woven rugs and carpets always require! And the cheery colors of *Gold-Seal* Congoleum Rugs will stay bright no matter how steadily the sun beats down.

Patterns for Every Room

Congoleum Rugs are just as practical for the other rooms in the house as for the sun-parlor. They come in artistic patterns suited to every use—charming floral designs for the bedrooms, rich Oriental motifs for living room and dining room and neat conventional tile effects for kitchen, pantry and bathroom.

These modern, sanitary rugs lie flat on the floor without tacks, nails, cement or any other kind of fastening. They never wrinkle at the edges or corners to trip unwary feet. And their very low prices bring them within the range of even the most modest purse.

Popular Sizes—Low Prices

6 x 9 ft.	\$ 9.00	Pattern No. 386 (shown below) is made in all sizes. The other patterns illustrated are made in the five large sizes only.	1½ x 3 ft.	\$.60
7½ x 9 ft.	11.25		3 x 3 ft.	1.40
9 x 9 ft.	13.50		3 x 4½ ft.	1.95
9 x 10½ ft.	15.75		3 x 6 ft.	2.50
9 x 12 ft.	18.00			

Owing to freight rates, prices in the South and west of the Mississippi are higher than those quoted.

"Beautify Your Home with *Gold Seal* Congoleum Art-Rugs," a very interesting illustrated folder by Anne Pierce, shows all the patterns in their actual rich colors and gives many helpful suggestions on home decorations. Our nearest office will gladly send you a free copy.

**CONGOLEUM COMPANY
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Philadelphia New York Boston Chicago Kansas City San Francisco
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Pattern No. 379



Pattern No. 386

Pattern No. 518

**Gold Seal
CONGOLEUM
ART-RUGS**

Motor to Church in Comfort

for Economical Transportation



The Chevrolet 5-Passenger Sedan is most popular for family use, because it affords comfort, weather protection and the home atmosphere all the year 'round for five people—yet may be economically operated with only one or two passengers. Its power, reliability and low up-keep appeal to men. Women like its handsome lines, fine upholstery, plate glass windows with Ternstedt regulators, and fine finish. Everybody appreciates its great value at \$795.

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Chevrolet Dealers and Service Stations everywhere. Applications will be considered from high-grade men only, for territory not adequately covered.

Prices f. o. b. Flint, Michigan

Superior Roadster	\$490
Superior Touring	495
Superior Utility Coupe	640
Superior 4-Passenger Coupe	725
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Fisher Bodies on all Closed Models

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A Woman, a Man, a Boy

Our Weekly Sermon—By N. A. McCune

IS a bad woman worse than a bad man, or does she only seem worse? Lady Macbeth seems to make a darker portrait than her husband, while Lear's daughters are more perfidious than their husbands. Lucretia Borgia is a blacker figure than her half-brother, though both were pilgrims of the night. So, Athaliah appears a greater sinner than any man ruler of Judah. Blood will tell. She was a daughter of Ahab and his Phoenician wife, Jezebel. The daughter had the fearlessness, will and hate of the mother. They were both zealous defenders of their religion! And what a religion, and what a manner of propagating it! "Hereditry determines what a man may become, but environment determines what he does become." Athaliah had both hereditry and environment.

When her son, Ahaziah, died, she killed off all the royal children but one, and reigned as queen. The one was not murdered with the others because an aunt hid him and cared for him till he was seven years of age. The people were horrified to have the daughter of a Gentile reigning over them, but no one dared say a word. The queen-murderess had gotten complete control of the governmental machinery, and all protesters were helpless, except one. That one was a clergyman, one of these pale, drawn and vapid creatures such as are portrayed as preachers, in the movies. This same clergyman was the father of Benaiah, the captain of David's bodyguard. And Jehoiada planned the coup d'etat, which ridded the nation of Athaliah and put her grandson, whom she had intended to murder, on the throne.

THE plans were laid with no detail omitted. Evidently it was on a Sabbath day. The guards were divided into two large bodies. The first were mounted, and guarded the entrance to the king's palace, and one of the gates of the temple. The infantry was stationed at the right and left of the heir to the throne (seven years old), to protect his person and kill any one who ventured inside the circle of rails which inclosed the royal seat. A romantic touch was given to the bold experiment when the spears and shields used by David's body-guard were passed out to the soldiers. The tiny king then approached and was anointed ruler of his people. All the assembled company clapped their hands and shouted, "Long live the king!"

The sound reached Athaliah in the palace, and, bold woman that she was, she hastened alone to the temple. Her eyes beheld the scene she feared the most—another person in the act of being crowned monarch. There stood the little Joash, who she supposed was dead, and about him stood the guard. She shrieked, "Treason, treason!" Jehoiada, the real ruler, who had engineered the whole plot, had given orders that the queen was not to be touched in the temple, for the temple was holy. But she was seized and dragged outside the temple court and killed.

SOME words about the boy king. He proved to be a good king, and he should have been, considering the devoted pains with which he was brought to the throne. He never forgot what others had done for him. Jehoiada was his counselor and confidant. The priest had a strong grip on the young monarch, and it was all for good. "And Joash did that which was right in the sight of the Lord all his days

wherein Jehoiada the priest instructed him." Does that intimate that he would not have ruled so well if he had not had this broad-gauge counselor? It looks so. But he had the good sense to retain the man who had not only put him on the throne, but whose entire life was given over to furthering the interests of the nation. A man who does not forget those who have pushed him forward and lifted him up, has some good qualities. "Gratitude is the least of virtues, ingratitude the worst of vices."

It is usually stated that Joash was providentially preserved. He escaped the fate of his little brothers. But Providence could act only when a human agent was ready to cooperate. The aunt was the human agent and she acted quickly. Nothing more is said of her. Maybe she was an old-maid aunt, who had no charms aside from her goodness, and no influence at court whatever. Just at that time, however, she was the most important person in the kingdom. She saved David's line from extinction. Most of us owe much to some obscure person; some household servant perhaps, who took care of us when we were little; some teacher who gave us encouragement at the right moment. When Garfield took the oath of office as president, he turned and kissed the aged mother who sat near, thereby showing his gratitude to the person to whom he owed most. But thousands of men owe as much to their mothers as Garfield did, though they may not be able to show it in as dramatic a manner.

THE man who was the chief figure all these years was this priest, this clergyman, who knew human nature and events. During the years of Joash's reign, Jehoiada was the virtual ruler. Among the reforms wrought by Joash was that of repairing the temple. During the reigns of Athaliah and others the temple had been allowed to fall into grievous disrepair. In fact, many of the stones and ornaments had been carried away, for use in erecting a temple to Baal, hard by. The tenderest memories of childhood, in the case of Joash, were associated with the temple. He could not endure to see it desecrated. A big chest was placed near one of the entrances, and as the people came and went, they dropped in money. In time this came to be a large sum, which was all used for repairing the sacred building.

When the house of worship is allowed to fall into decay, something is the matter. In towns where there are too many churches, it may be well enough to let one or two of them close their doors. But where a church is needed, it should be kept up. People who blow in as much for movies, soft drinks and cigars as we do, do not need to whimper when asked for a contribution for repairing the church. A church building in obvious need of repair breeds contempt in the eyes of the boys and girls. They attend a school where everything is modern, well kept and convenient. They go to Sunday School in a building where the walls are smoked, the windows cracked, the carpets worn through to the boards. What other conclusion can they draw, except that the school is important, the church is not? A Joash in many Michigan towns would do more good than a new sheriff. "I love thy church, O God! Her walls before thee stand, dear as the apple of thine eye, and graven on thy hand."

SUNDAY SCHOOL LESSON FOR MAY 11.

SUBJECT:—Jehoiada's victory over Baal. I Kings 14:1 to 15:24; II Kings 11:1 to 18.

GOLDEN TEXT:—Be strong in the Lord, and in the strength of his might. Eph. 6:10.



"E" for Texas too!

All-Day Conflagration shows Fire-Chief new points about Ford Lubrication

A TEXAS town* has two Ford fire trucks. A fire started in the morning. It raged all day. The Post Office and several business buildings were destroyed.

Truck Number One, lubricated by a well-known oil, went to work—pumping, hard, continuous work—at 6:30 A. M. By 9 o'clock the engine was seriously overheated. The water was boiling. In the two and one half hours a gallon and a half of oil was consumed.

The crank-case was drained and a different oil poured in. Within 30 minutes the engine again badly overheated and the water boiled.

In desperation, a third brand of oil was tried. This, too, lasted only 30 minutes. When the drain plug was removed the oil ran out and "foamed up like a batch of hot molasses."

"E" Thrives on Hard Jobs

The Fire Chief was then urged to use Gargoyle Mobiloil "E." A gallon of "E" went into the Ford engine at 11 o'clock. The engine ran continuously until 7 that night—on the same oil plus about a quart more. No overheating. No boiling. "The boys could tend to the hose instead of the engine."

* Name of the town on request.

Truck Number Two went through the same difficulty and got the same welcome relief from Gargoyle Mobiloil "E."

What "E" Offers Your Ford

Some of the marked benefits of using Gargoyle Mobiloil "E" in a Ford engine are these. Less carbon; better bearing lubrication; positive and immediate clutch engagement and disengagement; thorough lubrication of transmission sleeves, gears and bearings; thorough lubrication of every frictional surface.

For the differential of your Ford car use Gargoyle Mobiloil "CC" or Mobilubricant as specified by the Chart of Recommendations.

Fair Retail Price

30c A Quart from Bulk

When the dealer sells a quart of Gargoyle Mobiloil from bulk for less than 30c, he does not make his fair, reasonable profit. Lower prices often accompany substitution of low-quality oil for genuine Gargoyle Mobiloil.

Prices are slightly higher in Canada, the Southwest, and the Far West.

Tractor Lubrication

The correct engine lubricant for the FORDSON TRACTOR is Gargoyle Mobiloil "BB" in summer and Gargoyle Mobiloil "A" in winter. The correct oil for all other tractors is specified in our chart. Ask for it at your dealer's.

Address our nearest branch:

New York (Main Office)	Minneapolis	Rochester
Boston	St. Louis	Oklahoma City
Chicago	Des Moines	Peoria
Philadelphia	Dallas	Albany
Detroit	Kansas City, Mo.	Portland, Me.
Pittsburgh	Milwaukee	Springfield, Mass.
Indianapolis	Buffalo	New Haven



VACUUM OIL COMPANY



Woman's Interests



Togs for Little Tots are Simple

A Touch of Embroidery Makes Every Day Dresses Into Sunday Frocks

FORTUNATE indeed is the mother who can sew, and especially so if she is the mother of little girls. They require so many little dainty dresses and skirts that are simple to make, yet expensive to buy.

The dainty bloomer dresses are popular for the little miss this season. Beside permitting freedom at playtime, they are easy to launder, two features which every mother should consider when planning children's garments.

The playtime frocks for children should be made of any good washable material of a color that won't fade and may be embroidered with simple de-

signs for mother, because the length depends partly upon the type of frock and partly upon the type of girl who wears it.

Girls under six years of age may wear their skirts above their knees. For girls from eight to ten years of age, the dress should come to the knee and two inches below for the girl around twelve years old.

TEMPTING EATS FOR SPRING.

Asparagus Salad.

Drain and rinse stalks of canned asparagus. Cut rings from a red pepper

without one. It is enjoyed between seasons, during extreme cold, and for ventilation. As a ventilator it is unexcelled, removing the cold air from the floor and throwing out heat into the room. Our fireplace was built by an expert, which we think very necessary to insure good draft and heat without smoke. The family greatly enjoy the fireside on cold winter evenings, perhaps with no light but the dancing flames, and someone at the piano or victrola, or grandpa and grandma recounting experiences of earlier days. Such times become "memory days" to the younger generation.—Mrs. B. R., Rockford, Mich.

Not Smoked in Twenty Years.

We have a fireplace in our living-room, which is unusually large. Even in quite cold weather it makes the room quite comfortable. It has two dampers, one giving direct draft and another indirect draft. It has been in use for twenty years and has never smoked.—Mrs. C. F. L., Adrian, Mich.

In a Remodeled Farm Home.

When we remodeled an old farm house into our present home, I insisted on having a fireplace. Husband had his doubts about building one, but now enthusiastically agrees it to be a cosy, convenient and ornamental addition to our home. It is built of rough building brick of deep red color across the north end of the living-room, with built-in bookcases at either end. Two small windows directly over the bookcases affords extra light.—Mrs. L. A. T., Armada, Mich.

Adds to Beauty of Room.

To our family a fireplace has proved practical, beautiful and to be the heart of the home. When equipped with a

damper that can be closed, there is no draft, and I am never troubled with smoke or ashes blowing into the room. No piece of furniture we could buy would add to the attractiveness of our living-room as does our fireplace. The color of the brick is part of the color-scheme of the room. Conversation grows brighter, music sweeter, and hearts are closer by the light of the open fire. Even the baby likes to watch the flickering firelight from his basket.—Mrs. H. B., Lansing, Mich.

Gives the Fireplace Due Credit.

When we were making plans for our bungalow, we decided to have a fireplace, even if we had to use the Ford a year longer. Ours is in the living-room and we have enjoyed it for two years. It not only adds to the beauty of the room, but has been a great comfort. Friends always speak of its restful, cosy, and pleasing appearance. I think the fireplace deserves at least two-thirds of the credit.—Mrs. L. K., Baldwin, Mich.

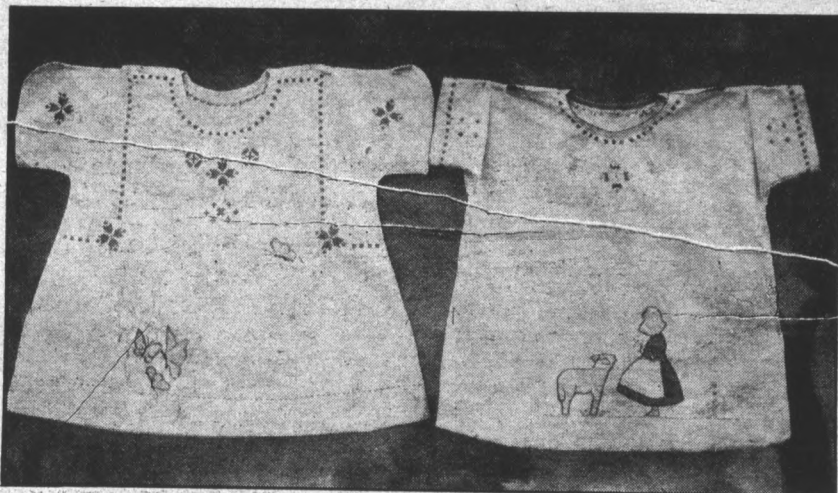
HOUSEHOLD SERVICE.

Please advise me how to can horseradish so it will keep.—L. L. M.

Grind the horseradish fine, and to each pint add one-half teaspoon salt and one-half teaspoon sugar. Cover with three parts vinegar and one part water which has been boiled. Pack in sterilized jars and seal.

If your horseradish tends to have a flat taste, it is usually caused by using too strong vinegar. The vinegar taste will overcome the spicy taste of the horseradish.

Several of our readers have told of packing the horseradish roots in earth in the cellar rather late in the fall and then of preparing them as they wished to use them.



Applique Designs for These Frocks May be Found in Your Favorite Magazine.

signs. Even the plainest little dresses can be made to look like Sunday frocks if a touch of embroidery is added in appropriate colors.

The new applique designs are very simple but effective on children's clothes, as illustrated here. If mother tells a bedtime story, such as Little Bo-peep or Little Red Hiding Hood, and then has a frock prettily embroidered with these designs for them to slip on in the morning, they will get a heap of enjoyment from it and be anxious to tell the story to their playmates.

Mother may find any amount of patterns for embroidery made for her use, but if she is resourceful, she can find the designs for her patterns in the advertising columns of her favorite magazine. Many of the Mother Goose stories are illustrated here and may be cut out and used as a pattern for an attractive picture for the little lady's newest dress.

The question of length of frocks for little girls is often a perplexing one

A WHITE FLOWER.

For mother's sake, from out this blossomed spray,
This snow-white flower with tender touch I take;
An emblem of my love to wear this day.

For mother's sake,

Pure—like the dew-drops when the birds awake
To sing the morning's resurrection lay;
White—like the foam on crystal mountain lake.

With lips too often silent, now I pray,
And this petition to the throne I make;

"Guide Thou my feet along the troubled way,
For mother's sake!"
—Alonzo Rice.

one-third inch wide. Place three or four stalks of asparagus in each ring. Arrange on lettuce leaves and serve with French dressing to which has been added a little tomato catchup.

Scalloped Asparagus.

2 cups milk	1 cup bread-crumbs
2 tb. butter	2 bunches (1 qt.) asparagus
2 tb. flour	2 egg-yolks
Salt, pepper	

Make a white sauce of the milk, butter and flour and season to taste with salt and pepper. Cook the asparagus until tender, drain and add it to the white sauce. Add the beaten yolks and turn the mixture into a buttered baking-dish. Cover with crumbs and brown in a moderate oven.

Rhubarb Relish.

4 lbs. rhubarb	1/2 lb. figs
4 lbs. sugar	1/2 lb. walnuts
1 lemon (juice)	

Cut the rhubarb in small pieces. Put in a kettle, add sugar and lemon juice, also figs which have been put through food chopper. Bring to boil slowly. Boil about three-quarters of an hour, then put in the nutmeats, chopped coarse. When it boils again, put in glasses and cover with paraffin. Raisins may be used in place of the figs if preferred.

READERS VOTE FOR FIREPLACE.

IF Mrs. M. E. H., of Charlevoix could have read the scores of letters that were received this week telling of the advantages of the fireplace, I am sure she would not hesitate in making one a part of her home. Every letter received to date was in favor of a fireplace, but declared that it must be built by a mason who knew his job. The prize-winning letters in brief follow here.—M. C.

Unexcelled as a Ventilator.

We have had our fireplace twelve years and would not consider a house

Play vs. Responsibility

WHEN the discussion of Mary's or Johnnie's behavior is current at the club, one often hears a mother say, "I let my children play, for when they grow up they will have to work hard enough to make up for it." Such statements always cause me to wonder if that mother is considering the future life training of her child.

The childhood spent in play does not give adequate preparation for the work to be done in manhood and womanhood. Childhood is indeed the time for play, and we should not expect a child to do things as grown-ups do. But, if he is not trained to assume certain responsibilities gradually, he will not be prepared to share his part in the game of life when he leaves the paternal roof.

A very successful experiment in child education has been conducted at the Lincoln School in connection with Columbia University, New York. The average child's school curriculum is planned upon the principle that school training prepares a child for the life they will live in after years. But at the Lincoln School, the pupils are encouraged to feel that in school they are already living their own lives with opportunities and responsibilities that will naturally flow on as time passes. They are taught to think and observe for themselves. By many of our noted educators, this plan has been pronounced as highly successful.

Mother may think she is helping her children by waiting upon them, but in reality she is harming them. When the time comes for them to depend upon themselves, their training is inadequate, and they fail.

A child's training with regard to responsibilities should begin in babyhood. As soon as he is old enough to walk across the floor and play with a ball he should be taught to put the ball in place before he goes to bed. As his playthings become more numerous, gradually he will learn to take care of them when he is through with them.

As he grows older, he is brought to realize that each one in the family circle has his work to do, and that for the love of the home he must do his part. If a child is active in doing his part of the work at home, he will not shirk when he takes up his responsibilities in the outside world.

Doings In Woodland

THE TALE OF THE OLD MAPLE TREE.

JACKIE RABBIT, Sandy Squirrel, and Glennie Woodchuck were playing on their way home from school, climbing trees to see who could get to the topmost branch first, turning somersaults and throwing stones. As they neared the big maple tree where they often played, Willie Woodchuck thought of something new to do. Jackie Rabbit and Sandy Squirrel were busy turning somersaults, so, skipping on ahead, he soon had his initials, "G. P. W.", (the P was for Percy), written in the bark of the old maple tree with his fine new knife.

Oh, let me do that too," said Jackie Rabbit when he came by.

"Me too," said Sammie Squirrel.

Soon J. B. R. (the B was for Benjie), and S. J. S. (the J was for Jim), were right below those of Glennie Woodchuck's.

As Sandy was just finishing his last letter, Frankie Fox came along. Quickly he saw what the boys had been doing and being the sly fox that he was, he did not scold them, but said:



"Why Did They Call it a Fire Tree?" asked Glennie.

"Hello, boys, having a good time? Would you like to hear a story?"

"Oh, yes, a story, a story," all three exclaimed at once, for they liked nothing better than to hear one of Frankie Fox's stories.

"Well, you know it was like this, boys," began Frankie when the three little Woodland boys were seated around him on tree stumps and listening attentively. "Once there was a maple tree, and a fine old tree it was. The boys and girls who used to play about it called it the fire tree."

"Why did they call it the fire tree?" asked Glennie.

"Because its leaves were so bright and beautiful in the autumn that they looked like fire," answered Frankie Fox. "These boys and girls just loved this old maple tree and often came to play in its shade and have picnics under it. But on one bright spring day when the children came to play under the old maple tree, she had no leaves to shade them."

"I don't understand," said one. "Our old maple tree always has leaves before the other trees. Now she is quite bald headed."

"Yes, quite bald headed. But why?"

"Yes, why?" they all asked of one another.

It was the maple tree who answered them. The bare branches rubbing together sang a song like this:

"Have a care, have a care.

Mars and scars kill maples fair."

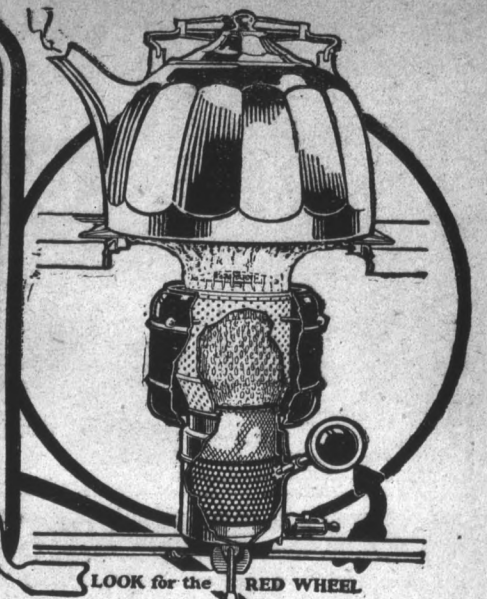
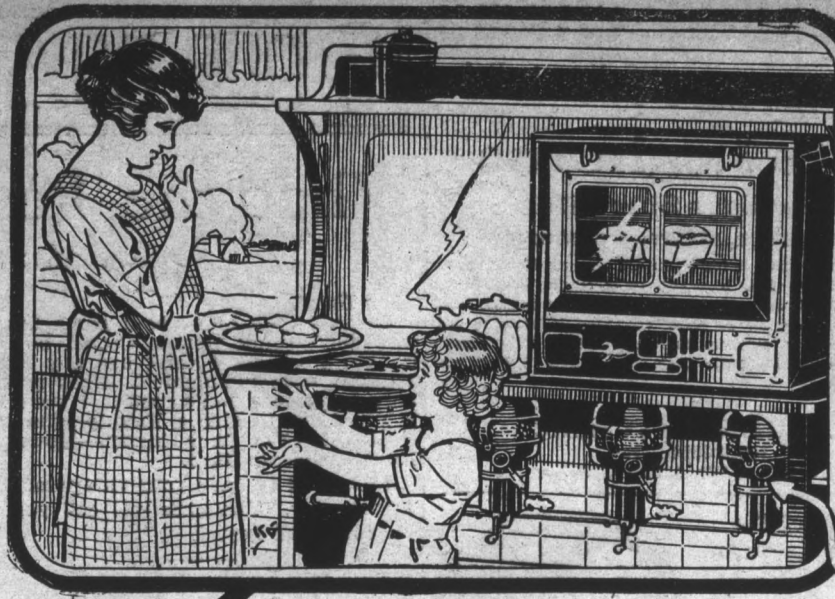
"Hear that?" said one little boy. "The maple tree is answering us. We have killed our dear old maple tree ourselves. We have marred and scarred her bark by our initials and pictures we have cut on it."

"Then the children all went back home without their play, each feeling very sad."

"I hope our old maple tree here don't die," said Glennie. "I'll never, never cut another tree."

"Nor I, Nor I," said Jackie and Sandy.

Thanking Frankie Fox for the story, they hurried right home and never stopped to carve any more initials.



LOOK for the RED WHEEL

Blue Flame Strikes Against Cooking Utensil

HERE'S a stove that burns oil with very rapid and efficient cooking qualities. It's a short-chimney-type burner which produces a clean, odorless, blue flame that strikes directly against the cooking utensil. That's because it's equipped with Lorain High Speed Oil Burners.

For nearly twelve years the Lorain High Speed Oil Burner has given perfect satisfaction in thousands upon thousands of homes. Each year its popularity has increased and last year the demand for oil stoves equipped with this remarkable burner was overwhelming.

The reasons for this popularity are obvious. Lorain gives forth an intense heat. It's simple in construction. Easy to operate. Never gets out of order. Seldom

needs cleaning. The Lorain Wick High Speed Oil Burner won't stick. The vital parts won't burn out—read the Guarantee.

So efficient and satisfactory is the Lorain High Speed Oil Burner that dozens of well-known oil cook stoves now have it as standard equipment. Among so many good oil stoves you'll surely be able to find one that will please you as to size, style, color and price. If there's no Lorain dealer near you, ask us for the name of the nearest one.

Guarantee

Should the inner combustion tube of the Lorain High Speed Oil Burner burn out within 10 years from date of purchase, replacement will be made entirely free of charge.

Many famous makes of Oil Cook Stoves are equipped with Lorain High Speed Burners, including:
Direct Action—National Stove Co. Div., Lorain, Ohio
New Process—New Process Stove Co. Div., Cleveland, Ohio
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You get layers of this type. When you buy Wolverine Chix.

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White Leghorns

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EARLY MATURING BABY CHICKS From Carefully Selected Pure-bred Stock

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Mixed, all varieties \$10.00 per hundred.
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.



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Prices quoted are for chicks hatched from OUR GOOD UTILITY FLOCKS. Chicks from 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.



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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.

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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.

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	Prices on	25	50	100	500	1,000
Eng. White Leghorn		\$3.25	\$6.00	\$11.00	\$52.50	\$105.00
Barred Rocks, R. C. and S. C. Reds		3.75	7.00	13.00	62.50	120.00
Odds and ends		2.50	4.50	8.00		

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.

CHILSON BARRED ROCKS

1922-23

Won Mich. International Egg Contest

at M. A. C. over all heavy breeds. We have chix and eggs from sisters and daughters of this pen at reasonable prices. May we send you our Mating list.
MR. and MRS. W. H. CHILSON, R. 1, Grandville, Michigan.



What the Postman Brought

Some Merry Circle Letters

Dear Unk:

Lorna Lange tells about some boys who don't think women should be in Congress. Well, I can't see any reason why women shouldn't. They probably do just as well as men. I wonder if you have to hire a Egyptologist to read this—I'm in a hurry.—Howard Kuas, Hillsdale, R. 4.

I am glad to have your viewpoint on this matter. The girls will call you a broadminded boy.

Dear Uncle Frank:

The question, "Are boys rude to girls?" is a good topic for discussion. Polly Svinisky says, "Maybe some boys think that they're good." But I never thought of myself as good, but still I'm not rude to girls.

While I attended the public schools, I and many other boys enjoyed ourselves by throwing snowballs at girls.



This is a Bull Calf of the Sacred Cow Tribe, which George Conway told us was Born at the Poor House at Manistee. His Name is Frank, But he is Not Named After Me.

but just soft "tiny-biddy" ones, which would not hurt the girls. The girls took their turn often in snowball fights.

Often I find fault with girls, but what is the use of mentioning them. The girls would probably cry if I did. Everybody knows how easily girls cry. Polly, if you want, you can throw a snowball at me right now, if you think you could throw that far. I'm sure I wouldn't cry.

Uncle Frank, I do think a lot of girls. I never act rude to them, but as it is, the only way to enjoy myself in public school is to tease the girls.

If this question was taken to court, it would be settled in the following manner: All boys are equal to girls, and all girls are equal to boys. This means, that the boys will not be rude to girls if the girls will be as kind as they think they are to boys.—I remain, your "work-to-win" nephew, J. E. Hatula, Trout Creek, Mich.

I think you have given Polly and some of the other girls a chance to throw back. I just wonder if teasing is good enjoyment. Do the girls enjoy being teased? Sometimes I think they do.

Dear Uncle Frank:

I haven't written for quite a while, because I have been "peppin'" up for exams.

Why don't you put up a "shack" in the country, seeing you like the country so well, and print a paper for us kids. I think we'd be willing to pay a few cents to get it.

Well, good-bye for now. Your niece, Agnes Blanshan, Watervliet, Mich.

I certainly would enjoy nothing better than living in a country shack getting out a paper for "my kids." But, it takes more than a few cents to print a paper and live at the same time. My! my! and you really "pep" up for exams.

Dear Uncle Frank:

I have worked on twelve contests and have not succeeded, but will not give up yet.

Uncle Frank, I bet I have something that no one else has. I have two gourds, one I have for my bank, and the other one I had father cut both ends off of it, then we varnished it and now we use it for a horn. My aunt gave us a phonograph and it didn't have a horn, so father fixed the gourd for a horn.

When we had our scramble contest I got acquainted with Dorothy Binch, and ever since she has been writing me letters.

Uncle Frank, I want to have some fun this summer, and I guess I will if they have the M-14 where they say. It will be just one mile from my place and I can sell flowers.—Your niece, Fern M. Talbot, River Jct., Mich.

I like your stick-to-it-iveness; it's a good thing to have. I bet that gourd is some phonograph horn and I hope that bank gourd will be too small for your money.

Dear Uncle Frank:

Say, Uncle Frank, what are you going to do this summer? I am going to be "chief" cook and dish washer. I like to wash dishes as well as any girl does. Do you?

I must ring off for this time.—Your want-to-be-niece, Evelyn Fischer, Davison, Mich.

I am also going to be chief cook and bottle-washer while my family are enjoying the country ozone. I can't say I like washing dishes, although I have done it many times.

Dear Uncle Frank:

I have just been reading the page in the Michigan Farmer. Of course, you know what page it is. You know, Uncle Frank, that interesting page. O! Uncle Frank, wake up! O! I guess I'll have to tell you. It's the Letter Box.

It must be fun looking over the letters you get each week from all the boys and girls. I am sending you this letter so that poor W. P. B. won't be worrying.—Lucy Kuiper, Kalamazoo, Mich., R. 6.

I'm so glad you told me what page that was. I would not have guessed it in a hundred years (?) You are very considerate of the waste basket.

Dear Uncle Frank:

Say, Uncle Frank, why don't you have your picture put in the paper some time? I would like to see what you look like. Or, don't you want anybody to know how you look?—Your would-like-to-be-niece, Christina Slade, R. 1, Dryden, Mich.

My picture was in the paper twice last year. Isn't that enough? Really, I look like everybody else, with my eyes.

Dear Uncle Frank:

In regards to the question, "Are boys rude to girls?" I don't think that they are. Perhaps some boys are not so courteous as they might be, but I don't think that they intend to be rude.



Cartoon Submitted in Drawing Contest by Herman K. Hoffer, of Ashley, Michigan.

Boys just naturally think that they are very superior beings. They like to make fun of a girl because she uses powder and likes pretty clothes. But really, Uncle Frank, don't you think that boys look just as ridiculous when they strut around with a cigarette or pipe in their mouth? Yet they think that it makes a man of them. I don't think they ought to ridicule the girls until they are perfect themselves. Do you, Uncle Frank?

Not wishing to be too sarcastic, I am, just another M. C. girl, Mary Wert, Laingsburg, Mich.

Why, I am surprised at you, to think that you do not believe that boys are superior beings. Being a boy, I know they are. (How's that, boys?) I agree with you, though, about cigarettes, pipes, etc. They certainly are not essential to good manhood.

White Diarrhea Stopped in 48 hours

If chicks are "pasted up", weak, wobbly, with no appetite, here's easy way to save them.

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.

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."

"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."

Don't let white diarrhea get started in your flock. Prevent it! Stop it! Readers are urged to write at once to Burrell-Dugger Co., 652 Allen Ave., Indianapolis, Ind., sending 50c as a deposit for a package by mail prepaid (or \$1 for large size holding nearly 3 times as much). If the Avicol doesn't stop your chick losses immediately, if you're not more than satisfied, every cent of the money you have deposited will be promptly refunded by the manufacturers.

Burrell-Dugger Company,
652 Allen Avenue Indianapolis, Indiana



DICKINSON'S
GLOBE
CHICK MASH
for the right start
to keep them growing
DICKINSON'S
Globe
Growing Mash
The Albert Dickinson Co., Chicago
DICKINSON'S
GLOBE
GROWING MASH

**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 Lakeview chicks if you want to make money. Write for low prices today sure.

Lakeview Poultry Farm, R. 8, Box 5 Holland, 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. Send for 1924 price list. Crescent Egg Company, Allegan, Mich.

The Best Jokes

By Bernice Harrington, R. 1, South Haven, Michigan.

"Wall," said Farmer Wilkins to his city boarder, who was up early and looking around, "Been out to hear the hay cock crow, I s'pose." And he winked at the hired man.

"No," replied the city boarder, "I've just been burying the frogs that croaked last night."

"Oh, Mother," cried Margaret as she ran into the parlor, "There is a man out in the kitchen kissing the hired girl."

"W-h-a-t?" exclaimed her mother.

"April Fool," cried Margaret. "It's only Papa."

Going home late one night, Mr. Jones met a robber who promptly demanded his money. Being informed that he had none with him he asked, "What have you in those two packages under your arm?"

"This one," exclaimed Mr. Jones, "is white sugar for my coffee, while the other is brown sugar for my pancakes."

"Huh!" said the robber in disgust, as he hit him over the head, "Here is a lump for your cocoa!"

By William Van Timmeren, R. 1., Lowell, Michigan.

Actor—"Yes, sir, someone aimed a base, cowardly egg at me."

Friend—"What kind of an egg is that?"

Actor—"A base, cowardly egg, sir? It's an egg that hits you and then runs."

Teacher—"Take this sentence: 'Take the cow out of this lot.' What mood?"

Pupil—"The cow."

An Irishman shot at a bird and hit a frog. Picking it up, he looked surprised and said: "Well, anyhow, I knocked the feathers off."

JOKE CONTEST WINNERS.

The first two joke writers won fountain pens. The other prize winners are as follows:

Flashlights.

Ruth Parks, Elsie, Michigan.
Beatrice Brislin, Ravenna, Mich.
Alice G. Dursum, R. 3, Ada, Mich.

Candy.

Alice Harris, Pullman, Mich., R. 1.
Impi Waltonen, Daggett, Mich., R. 1.
Ada I. Kortz, Bear Lake, Mich., R. 2.
Carol Champlin, Lake Odessa, Mich., R. 3.
Peter Schumaker, Conklin, Mich., R. 1.

Correspondence Scramble

WE have not scrambled for quite a time, so I guess we had better get busy again.

If you want to take part in this scramble, write a letter, addressing it Dear Merry Circler; Dear Unknown Friend, or in some other similar way.

Then address a stamped envelope to yourself and enclose it with your letter in a stamped envelope addressed to Uncle Frank, Michigan Farmer, Detroit, Michigan. In the lower left hand corner of this latter envelope write "Correspondence Scramble."

On Friday, May 16, we will open all the envelopes that come and will place your letter in some other envelope and the letter belonging to somebody else in your envelope and will mail them out.

In that way you will get a letter from a fellow Merry Circler and some other boy or girl will get yours. This will give you two chances to start a correspondence.

If a girl prefers to correspond with girls only, or a boy with boys only, a slip should be enclosed stating this preference, and we will comply with the request.

B-A-B-Y C-H-I-X-S

PEDIGREE SIRED Eng. W. Leg. Barron Strain. Now booking orders for June delivery at \$11.00 per 100; \$50.00 per 500; \$95.00 per 1,000. Delivered postpaid, 100 per cent alive at your door. Terms 10 per cent down, Bal. C. O. D. Circular free. MODEL POULTRY FARM, Zeeland, R. 4, Mich.

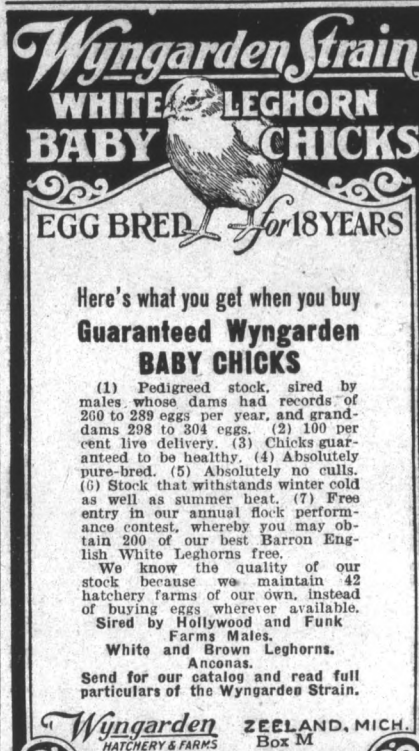


**Certified
White Leghorn
CHICKS**
Hollywood
Mated
**at the
RIGHT
PRICE**

Barron English type; from stock certified by Michigan Baby Chick Association. Sired by Hollywood males whose dams had records from 200 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.



**Wyngarden Strain
WHITE LEGHORN
BABY CHICKS**
EGG BRED for 18 YEARS

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

(1) Pedigreed stock, sired by males whose dams had records of 200 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 Wyngarden Strain.

Wyngarden ZEELAND, MICH.
HATCHERY & FARMS Box M



PURE BRED CHICKS

What our Customers say—
Elmer Arnold—801 eggs in 14 days in December from 85 June hatched White Leghorns; Bought 100 Ancona chicks, raised 69 pullets, 30 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 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.

Pure Bred, Big Value CHICKS. NOW at Reduced Prices

	25	50	100	500	1000
S. C. White, Brown, Buff Leghorns.....	\$2.50	\$5.00	\$10.00	\$47.50	\$90.00
B. Minorcas, Anconas, Barred Rocks, Reds.....	3.00	6.00	12.00	57.50	110.00
White Wyandottes, White Rocks.....	3.50	7.00	14.00	67.50	130.00
White and Buff Orpingtons.....	4.00	8.00	16.00	77.50	150.00
Broiler Chicks Heavy.....	5.00	10.00	20.00	90.00	180.00
Broiler Chicks Light.....	2.25	4.50	9.00	45.00	90.00

Bank Reference and safe arrival Guaranteed. Order from this ad and save time.

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

WASHTENAW



HATCHERY Our flocks have been carefully developed over a period of EIGHT YEARS for HEAVY LAYING QUALITIES. HEALTH and VIGOR. This enables us to supply our many valued customers with BIG, STRONG, STURDY CHICKS that Live and Grow into useful, profitable fowls.

Varieties:
English White Leghorns\$3.75
Barred Rocks, R. I. Reds4.25
White Rocks and Wyandottes4.50

Prices on 25 50 100 500
\$7.00 \$13.00 \$26.00 \$130.00
\$8.00 \$16.00 \$32.00 \$160.00
\$9.00 \$18.00 \$36.00 \$180.00

Postpaid to your door. 100 per cent Live Delivery Guaranteed. Order right from this Ad. with full remittance and save time. AFTER MAY 24th \$2.00 per 100 LESS. Reference, Farmers' & Mechanics' Bank. You ARE NOT taking chances when you deal with

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

Additional Poultry Ads. on Page 679



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.



MAY AND JUNE CHICKS
THE KIND THAT PAYS BIG PROFITS.
PINE BAY FARM CHICKS are backed by our 20 years' experience in the poultry business and a reputation for fair dealing with thousands of satisfied customers. Our experience protects you.

CHICKS FROM 6¢ UP FOR JUNE DELIVERY.
Rocks, Reds, Minorcas, Anconas and Leghorns. We breed and own International Egg Laying Contest Winners. Free Catalog. Get full prices before ordering elsewhere.

PINE BAY POULTRY FARM, HOLLAND, MICH.



KILBOURN'S ROYAL STRAIN

Baby Chicks and Eggs. Grade A stock produced by us on our own farm. Rocks, Reds, and Wyandottes, \$18.00 C. Common \$16.00 C. Leghorns \$15.00 C. Common \$12.00 C. 100% live delivery. Vigorous and true to name. Get the best. Custom hatching our specialty.

KILBOURN'S HATCHERY & POULTRY FARM
Box 24 Zeeland, Mich.



**BEST CHICKS
at Low Prices**

Send for free catalog describing best bred chicks in the country. Tom Barron and Tancred 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 per cent live delivery guaranteed.

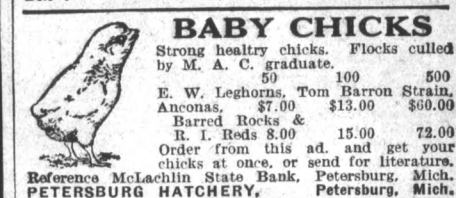
Brummer-Fredrickson Poultry Farm, Box 20 Holland, Mich.



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 Orpingtons 9c up. Our large free catalogue tells all about our superior, egg pedigree stock.

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



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.



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.

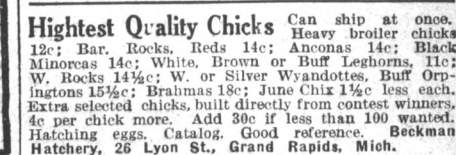
THE KAZOO HATCHERY CO.
R. R. 3 Kalamazoo, Mich.



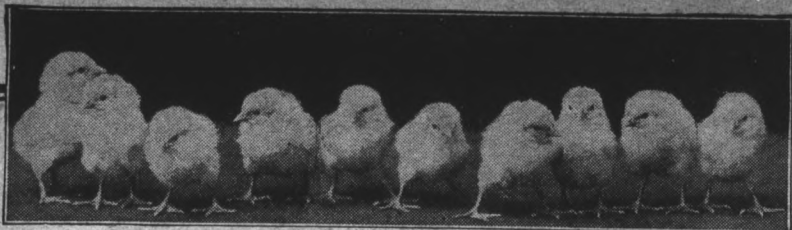
White Leghorn Baby Chicks

TANCREDE-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 1/2 cent and up. 100 percent live arrival guaranteed. prepaid parcel post. Write at once for valuable illustrated catalog and latest price list.

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



Highest Quality Chicks Can ship at once.
12c; Bar. Rocks, Reds 14c; Anconas 14c; Black Minorcas 14c; White, Brown or Buff Leghorns, 11c; W. Rocks 14 1/2c; W. or Silver Wyandottes, Buff Orpingtons 15 1/2c; Brahmas 18c; June Chix 1 1/2c 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, 26 Lyon St., Grand Rapids, Mich.



Absolutely the Finest Quality White Leghorn Chicks

From the World's Great Laying Strains

English S. C. White Leghorns

(Snowdens Highest Egg Pedigreed Blood Lines Imported direct from England)

Tancred Champion White Leghorns

[Famous National Egg Contest Winners]

Strong, peppy, highest quality, selected chicks from the cream of our choicest matings; large, deep-bodied, lopped combed hens.

Extra Special Reduced Prices

\$12 per 100—\$55 per 500—\$100 per 1,000

For May 19-26—June 3 delivery. Postpaid—100% live delivery guaranteed.

C. O. D. or Cash with Order—Order now by telegram, postal or letter for immediate or future delivery. No order too large—none too small. Thousands ready for shipment every Monday. Free beautiful illustrated circular. Send for prices on matured stock and 10-weeks-old pullets.

VAN BREE'S POULTRY FARM, Box 16, Zeeland, Mich.

ONE MILLION

REDUCED PRICES ON READY MADE GOOD LUCK CHICKS \$8.50 PER 100 AND UP.

This season get our big, fluffy, healthy, vigorous "Good Luck" chicks and REAP BIG PROFITS. These prices effective on and after May 17th.



Varieties	Prices on	50	100	300	500	1,000
White & Brown Leghorns		\$ 5.50	\$10.00	\$29.00	\$47.00	\$92.00
Buff Leghorns, Anconas		5.50	10.00	29.00	47.00	92.00
Barred Rocks		6.00	12.00	34.00	57.00	110.00
R. C. & S. C. Reds		6.00	12.00	34.00	57.00	110.00
White Rocks		6.50	13.00	37.00	62.00	118.00
Wh. Wyandottes, Blk. Minorcas		7.00	13.50	39.00	65.00	120.00
White & Buff Orpingtons		7.00	13.50	39.00	65.00	120.00
Silver & Part. Wyandottes		10.00	19.00	55.00	.....	.....
Buff Minorcas, Lt. Brahmas		10.00	19.00	55.00	.....	.....
Speckled Sussex		10.00	19.00	55.00	.....	.....
Mixed Chicks, \$8.50 per 100. Mixed, all heavies		11.00	per 100 straight.	.....	.....	.....

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 HATCHERIES, Box 72, NAPOLEON, OHIO.

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.

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	R. I. Reds	\$9.50	\$18.00	\$85.00	\$110.00
2. Extra Select B. P. Rocks and R. I. Reds		8.00	15.00	72.50	140.00
3. Select B. P. Rocks, S. C. & R. C. R. I. Reds		7.00	13.00	60.00	115.00
4. W. Wyandottes, Buff Orpingtons & W. P. Rocks		8.00	15.00	72.50	140.00
5. Utility & English S. W. Leghorns		5.50	10.00	47.50	95.00
6. Special American S. C. W. Leghorns		6.00	13.00	60.00	115.00
Mixed, all varieties		\$10.00	for hundred.		

Mixed, all varieties \$10.00 for hundred. 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

New Low Prices On Dundee Pure Bred Chicks

FROM MAY 26th TO JULY 28th.

Barred Rocks	100	500	1000
R. C. R. I. Reds	\$12.00	\$55.00	\$110.00
Anconas	12.00	55.00	110.00
White Leghorns	10.00	47.50	95.00
Chickens	10.00	45.00	90.00

Get your order in early. All birds culled by M. A. C. Graduate. 100 per cent live delivery, postpaid. Reference Dundee State Savings Bank. Order direct from this Ad or write for catalogue.

THE DUNDEE HATCHERY, Box A, Dundee, Michigan



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From select flocks of heavy laying Pure-Bred hens on free range and properly cared for to insure strong, vigorous chicks that will live and MAKE MONEY for you. Order right from this ad. with full remittance and get them quickly. Bank reference. There is no risk. Chicks will reach you safely.

Varieties	Prices on	25	50	100	500	1,000
White, Brown, Buff Leghorns, Anconas		\$3.50	\$6.50	\$12.00	\$67.00	\$110.00
Barred Rocks, R. I. Reds, Minorcas		3.75	7.00	13.50	65.00	125.00
Wh. Rocks & Wyandottes, Buff Orpingtons		4.00	7.50	14.50	70.00	.....
Mixed Chicks, \$9.50 per 100. Heavy Mixed, \$11.00 per 100 straight.						

Postpaid. 100 per cent live arrival guaranteed. Catalog Free. Box 533 ARCHBOLD, OHIO



HIGH GRADE CHICKS

S. C. English White Leghorns and S. C. Anconas; strong, sturdy, northern grown chicks, hatched from flocks on free range. We ship by Prepaid Parcel Post and guarantee satisfaction and 100 per cent live delivery. Send in your order at once at the following prices, or send for catalogue. Write for prices on special matings. Send 10 per cent with order, balance one week before chicks are shipped. Can ship any week.

	50	100	500	1,000
	Chicks.	Chicks.	Chicks.	Chicks.
May Prices	\$5.50	\$11.00	\$52.50	\$100.00
June Prices	5.00	10.00	47.50	90.00
Broiler chicks \$2.00 per 100 less.				

Broiler chicks \$2.00 per 100 less. M. D. WYNGARDEN, R. 4, Box 80, Zeeland, Mich.

REDUCED PRICES ON ONE MILLION BETTER BABY CHICKS

Varieties	Prices on	50	100	300	500	1,000
White, Brown, Buff Leghorns		\$ 6.00	\$11.00	\$32.50	\$52.50	\$100.00
Barred & Buff Rocks, Blk. Minorcas		7.00	13.00	38.00	63.50	125.00
S. C. & R. C. Reds, Anconas		7.00	13.00	38.00	63.50	125.00
White Rocks & White Wyandottes		7.50	14.00	41.00	68.00	135.00
Silver L. Wyandottes		8.50	16.50	49.00	80.00	160.00
Buff Minorcas		11.00	21.00	60.00	.....	.....
Mixed Chicks, \$8.00 per 100 straight; heavy mixed \$10.00 per 100.						

Postpaid to your door. 100 per cent live delivery guaranteed. Hatched from heavy laying, pure-bred flocks. Bank reference. Order right from this ad. with full remittance. Circular Free. Member I. B. C. A. and Ohio C. A. We are only four hours from Detroit. **EAGLE NEST HATCHERY, Box 81, Upper Sandusky, Ohio.**

WHY GOSLINGS DIE.

WEAK and stunted goslings often result from the efforts of the owner to keep them in small fenced enclosures where they will not be harmed by other farm animals. They often do well on limited range until a week or ten days old, and then some will stand humped up with drooping wings. Exposure to the hot sun may cause the same result.

An orchard where there is plenty of shade and fresh clover sod makes a fine range for goslings. A field protected by an evergreen windbreak will help induce them to range in the early spring when the days may be windy.

When the goslings become weak and throw their heads back and die in a short time it is probably due to congestion of the brain caused by intestinal worms or indigestion. If the droppings indicate the presence of worms, try giving each gosling a half-teaspoonful of turpentine. This can be placed rather deep in the young bird's throat with a medicine dropper.

Two teaspoonfuls of castor oil will sometimes improve the digestive system of a weak gosling and cause it to return to normal. When a large number of goslings require treatment for worms add one-fourth pound of sulphur, one-fourth pound of epsom salts and two ounces of powdered copperas to twenty-five pounds of their mash. The mash containing the medicine can be given once each day, when the birds are quite hungry.—G.

HANDY STORAGE BIN.

IN most laying-houses a storage bin for scratch grain can be built out from the sills without taking up any of the floor space. Such a bin can hold at least six or eight hundred pounds of grain. It should have a smooth slanting roof so the hens cannot roost on it.

The storage bin saves carrying grain every day and enables the caretaker to feed the hens quickly in the evening when other work requires attention. The farmer who will carry grain to the hen house with the team and keep the bin filled will find that his wife can care for the hens without carrying heavy pails of scratch feed. In snowy and rainy weather the handy grain supply may insure better care for the hens.—R.

BROODER STOVE TROUBLES.

I have a coal-burning brooder stove. I am burning hard coal, chestnut size. I have my stove equipped with six-inch pipe as I could not get hard coal last year and was obliged to use soft. I have hard coal this year, however. I can get the fire to burn very well during the day, but it does down every morning and every evening in spite of anything I can do. It takes from three to four hours to get it started again. The weather has not been cold enough so that the chicks have been chilled, but that is all that prevents it. I shake down the clinkers and put on coal when there is a bed of glowing coals and it immediately goes down as though there was no draft. I take down the ash pit door, and have the check draft regulated correctly. I think that it is something that I do not do as I should, but I do not know what.—M. M. S.

We use three-inch stove pipes on our coal-burning brooder stoves and find the draught satisfactory. The pipes are six feet long. Some poultry breeders have found that the location of a colony house may influence the draught in the brooder stove operated in the house. If your house is located near other buildings where the air currents seem to retard the fire it may help to move the house to a more exposed position. Be sure that all clinkers are removed from the grates. It takes only a few clinkers in the small brooder house grates to bank up the ashes and slow down the fire.

Last year Pacific Coast poultrymen in New York sold 751,000 cases of eggs, or five times the number that they sold in 1921.

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.

DAIRY IMPROVEMENT WORK

Started Twenty Years Ago

America's Oldest Cow Testing Association Meets at Fremont

THE Newaygo Cow Testing Association held its twentieth annual meeting at Fremont on April 18. The season has been backward in Newaygo county—delayed farm work needed attention—and yet, fifteen of the twenty-six regular members of the cow testing association attended the meeting. This speaks well for the interest of the members. The association is old but the spirit is fresh.

In fact, the association is so popular that Tester Johnson reports five herds being tested out monthly in addition to the regulation number. These extras will soon be in a separate association, for County Agent Clair Taylor has the second cow testing association ready to go, and a third partially formed. We cannot say much longer, "The Newaygo Cow Testing Association," but will have to designate one of three.

In the business meeting Raymond Kempf, of Fremont, was elected president for another year. Kempf is the only member whose herd, all pure-bred Holsteins now, has been in the association since the start in 1905, although several other members have been in for three or four years.

Erwin Price—formerly herdsman for four years at M. A. C., but now running a Guernsey herd near Fremont—was re-elected secretary-treasurer. This mark of recognition came as a result of Price handling finances so skillfully last year that a surplus of eleven cents was left in the treasury.

Gerritt Meeuwenberg, now on the home farm after spending several years in advanced registry testing for M. A. C., was elected vice-president.

The association decided to hold a picnic during the summer at the river farm of Orville Atwood. President Kempf appointed a Holstein man, Meeuwenberg; a Jersey man, Nelson, and a Guernsey man, Rotier, to have charge of arrangements, saying that no breed favoritism should be permitted. A spirit of friendly rivalry exists between the lovers of the three leading dairy breeds represented in the cow testing association.

Twenty boys from Mr. Holden's agricultural class in the Fremont High School attended part of the meeting to hear a dairy talk given by J. G. Hays, of the Dairy Extension Department, M. A. C. Hays stressed "home" feeding of cows as well as new ideas on mineral requirements; pointed out the sales value of dairy cattle backed by cow testing records, and emphasized the value of real pure-bred bulls.

Digging in King Tut's tomb revealed no more precious treasure than was recently discovered in the process of spring house cleaning in the vault of the Fremont State Bank. For, behold the prize cup was found! This cup was procured by the association in 1913 to be given out yearly to the cow producing the highest yield of butter-fat during each association year. The Newaygo County Farm won it during each association year. The Newaygo County Farm won it during the year 1915-1916, then H. W. Zerlaut captured it next season, then—it disappeared! To be found recently, years later.

This cup will be awarded for last year to A. C. Nelson, of Holton, Michigan. His Jersey cow made 586.7 pounds of fat and 8,787 pounds of milk. Mr. H. Zerlaut, of Fremont, would be winner for 1921. His grade Guernsey cow made 549.7 pounds of fat and 10,581 pounds of milk. In the future this cup will be awarded to the cow that produces most butter-fat, age considered. Any breeder holding the cup for three years in succession becomes permanent owner.

Truly, the interest and enthusiasm shown by the members of this, the oldest cow testing association in the United States, should serve as an inspiration to fellow dairymen in Michigan's eighty-two cow testing associations.

PASTURE AND COWS AND GRAIN.

EVERY cow owner welcomes spring. The cows can get out and rustle their own feed. Labor about the barn is cut down. Feed costs are lessened. Production per cow increases. Pasture gives renewed vigor and stamina to cows that have not been fed properly during the winter. All cows relish the change to pasture.

Cow testing association experience shows that where the proper winter feeding was practiced least change occurs when cows are turned on pasture. This same experience shows that large heavy milk producers lost weight at this time. Don't scrimp on feed to such cows. They are making the greatest net return above feed cost. If they lose body weight it means lessened milk at a later date. It is expensive to rebuild cows into good condition. In the long run it is cheaper to keep the cows in good condition the year round.

Small quantities of grain help to maintain efficient production when the cows are on pasture. How much grain may be fed to advantage? Each cow-testing member and dairyman can determine this best for himself under his own conditions.

A 4-2-1 ration of corn meal, ground oats and cottonseed meal, respectively, fed at the rate of one pound mixture to every six to eight pounds of milk supplements real good pasture excellently. Ground barley or ground wheat may be used to replace cornmeal and bran to replace ground oats.

AN ECHO FROM THE PIPETTE TWIRLERS.

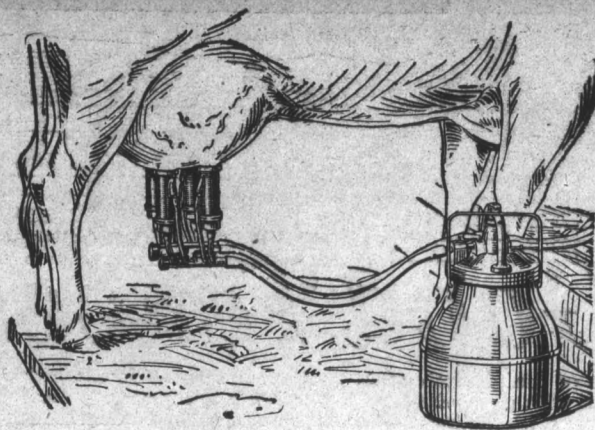
DURING March of this year, seven cow testing associations finished a year's work. All of these associations are continuing. The Kalamazoo Association developed into a two-cylinder organization. Many interesting items are reported from these associations.

Bennett, of the Muskegon-Ravenna Cow Testing Association, reports that fifty-six cows were found undesirable. They were sold and nine grade bulls were "barbecued." Seven pure-bred bulls—three Holsteins, two Guernseys and two Jerseys—were bought.

Sexton, of Kalamazoo, states every member finished the year and eighteen members were on a waiting list. Every member has a silo and every member grows alfalfa. Eighteen pure-bred bulls were purchased to replace others. Tester H. Hansen, of the North Kent Cow Testing Association, reports that twenty-three of his twenty-five members mixed their own feed. All herds are tuberculin-tested. Harry Williams had high cow and high herd in both milk and fat production.

In the North Clinton Cow Testing Association, Ford Morgan mentions that a pure-bred Holstein cow, eight years old, was the high cow in butter-fat production. This cow made 14,991 pounds of milk and 557.9 pounds of fat. This cow belongs to Mr. F. Wilson's daughter, Miss Rosa M. Wilson joined a calf club sponsored by Mr. E. A. Stebbins, of the Farmers' and Merchants' Bank, of Carson City, in 1917, and organized by Prof. W. E. J. Edwards, of the Animal Husbandry Department, M. A. C.

About ninety per cent of luck is manufactured by the benefactor.



20,000 De Laval Milkers

Now used in U. S. A., Hawaiian Islands, Canada, Cuba, Sweden, Norway, Finland, Denmark, Holland, France, England, South Africa, India, New Zealand, Australia and Japan.

The progress which the De Laval Milker has made during the last three years is truly remarkable. In the face of extremely adverse conditions, financial and otherwise, it has gone ahead, winning thousands of new users and friends, not only in the United States and Canada but throughout the world. These facts prove two very important points:

(1) That the De Laval Milker is the only milking machine sold and used on a world-wide basis proves that it is recognized by the leading dairymen of the world as "The Better Way of Milking."

(2) That most of these milkers were sold during the worst financial depression of recent years, when only such equipment as would actually pay for itself in a short time was purchased, proves that it is a paying investment.

The De Laval Has Made Good

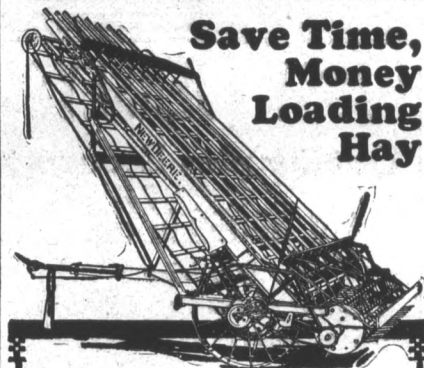
There is no longer any question but what the De Laval Milker is "The Better Way of Milking." It eliminates a great deal of hard, disagreeable labor. It enables one man to milk at least twice as many cows as he can by hand. It will milk cows better than can be done by any other method, as proved by the fact that cows almost invariably increase their milk production when milked with a De Laval. A number of world's records have been made by De Laval-milked cows. The De Laval is simple in construction, durable, and easy to operate. And finally, cleaner milk of higher quality can be produced with it, as it is easy to keep in a clean and sanitary condition.

The Best Investment You Can Make

Thousands of users claim the purchase of their De Laval Milker was the best investment they ever made. You will say the same after you have used one. Even though you haven't enough cash to pay for a De Laval outright, a small payment will put one to work for you; and the saving in hired help and the extra milk produced will more than pay the rest.

THE DE LAVAL SEPARATOR CO., DEPT. 488
165 B'way, New York; 29 E. Madison St. Chicago
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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.



Save Time, Money Loading Hay

Get away from the tiresome job of pitching hay onto the wagon in the field, use less farm help and harvest the hay quicker, better and cheaper by using a

New Deere Hay Loader

The lightest-draft loader of its type.

Handles the hay gently. Ideal for alfalfa, clover or beans. Valuable foliage parts are not knocked off. Rakes the ground clean, but gathers no trash. Gathering cylinder floating (patented); it cannot catch or dig into the ground surface.

Saves all the hay, gathering cylinder is thickly studded with loose coil, flexible fingers. Entire width of machine constantly being raked.

Large capacity. There is no hesitation in gathering or elevating the lightest swath or heaviest windrow.

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FREE BOOK describing this loader and an "extra-profit-making" system of air-curing hay sent upon request. Address John Deere, Moline, Ill., and ask for Booklet DE-722

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AGRICULTURAL LIME
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Centaur Small Farm Tractor
Most efficient small farm tractor made. Displaces horse. Plows 7 inches deep in clay soil. Ideal for cultivating, harrowing, planting, mowing and all belt work. Costs but 8c to 10c per hour to run. Has a reverse. 5 years' proven performance. Liberal Terms. Money-back Guarantee. Write today for Catalog.
The Central Tractor Co. 154 Cent. Ave., Greenwich, O.

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TRADE MARK REG. U.S. PAT. OFF.

Will reduce Inflamed, Strained, Swollen Tendons, Ligaments, or Muscles. Stops the lameness and pain from a Splint, Side Bone or Bone Spavin. No blister, no hair gone and horse can be used. \$2.50 a bottle at druggists or delivered. Describe your case for special instructions and interesting horse Book 2 R Free.

ABSORBINE, JR., the antiseptic liniment for mankind, reduces Strained, Torn Ligaments, Swollen Glands, Veins or Muscles; Heals Cuts, Sores, Ulcers. Allays pain. Price \$1.25 a bottle at dealers or delivered. Book "Evidence" free. W. F. YOUNG, INC., 468 Lyman St., Springfield, Mass.

For Healing
any cut, scratch, bruise, chaf or inflammation of udder or teats—or other bodily hurt—apply Bag Balm. Penetrates and heals quickly, surely.
Large 10-ounce package, 60c at feed dealers, general stores and druggists. Send for free booklet, "Dairy Wrinkles."
Dairy Association Co., Inc. Lyndonville, Vt.
BAG BALM
MADE BY THE KOW-KARE PEOPLE



Good Fences

One of the greatest needs on the farm today is the inclosing of fields with good wire fences, permitting scientific crop rotation and better stock raising. Good fences are always an investment.



"Columbia" HINGE-JOINT Fence

—is made with the "Columbia" Hinge-Joint that grips with grit, forming strong, flexible stays from top to bottom of the fence. "Columbia" Fence is made of full gauge wires, heavily galvanized. It is an effective fence that gives long and satisfactory service. Made in standard farm and poultry styles.



"Pittsburgh Perfect" STIFF-STAY Fence

—is one of the most widely used stiff-stay fences on the market. The full length stay wires are inseparably welded to the line wires by the electric welding process which we have perfected by more than twenty years of manufacturing experience. "Pittsburgh Perfect" Fence is strong and durable; made in many farm, poultry and lawn styles.

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An attractive "Pittsburgh Perfect" Lawn Fence not only contributes to the beauty of the lawn, but effectively keeps out chickens and all farm animals. You can have a nice lawn with grass and flowers, making an enjoyable home setting and a safe place for children to play.

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

Guernseys Two choice, well-grown bull calves nearly 7 months old, from good producing dams, and sired by grandson of Imp. King of the May, at farmer's prices for quick sale. Wm. S. Ormiston & Son, R. 8, St. Johns, Mich.

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

Reg. Guernseys 6 Heifer Calves, suitable for club from. Come and see them, \$125 each. J. M. Williams, North Adams, Mich.

GUERNSEYS Reg. heifers for sale, also two young cows, Quality, right prices. W. W. Burdick, Williamston, Mich.

Michigan State Herds

Offer a grandson of Champion Echo Sylvia Pontiac, about ready for service.

Ear Tag No. 514:

Born June 28th, three-fourths white, straight and well grown. A son of Prince Echo Rauterd, half-brother to Echo Sylvia King Model, from a 34-lb. senior three-year-old daughter of a 30.5-lb. cow with a yearly record of 1,113 lbs. butter and 29,000 lbs. milk.

The dam of this calf is a 27.6-lb. daughter of Traverse Prince Inka Lad, sire of 84 A. R. O. daughters, five above 30 lbs.

From the famous Traverse City State Hospital herd.

Pedigree upon application to

Bureau of Animal Industry,
Department C Lansing, Michigan

JERSEYS For Sale. Yearling Bull of the famous Golden Tycoon Strain—Sire three times to Golden Tycoon 104240 (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 (548). Sire of 39, 3rd Dam 686 lbs. 4 oz. butter in 1 year, daughter of Foxhall's Jubilee 76944 (328). Sire of 30. Also cows and heifers of as good breeding. LeRoy Kuney, Adrian, Mich.

FOR SALE Jersey bulls ready for service. All cows Register of Merit. Accredited herd. Would take a bankable note. SMITH AND PARKER, R. 4, Howell, Mich.

"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 standpoints, 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.

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.

HEREFORDS
Registered Breeding cattle, T.B. Tested at practical prices for production of Hereford Baby Bees profitably, all ages. T. F. B. SOTHAM & SONS (Herefords since 1839) St. Clair, Mich.

PIGS IN ALFALFA.

FROM time immemorial the phrase, "pigs in clover" has been synonymous with prosperity. One of our good farmers up in the central part of the state goes it one better and puts his pigs in the alfalfa field.

Albert Collison, who owns a square quarter-section of that rich dark loam near the little town of Coleman, came a few years ago from the state of Indiana, where they raise hogs. He is a great admirer of the good ones and owns now one of the outstanding herd sires of the country, a mammoth boar with lots of quality that weighed 730 pounds at less than eighteen months of age.

There is a field of twenty acres close to the barn, that produced a heavy growth of Grimm, alfalfa last year. This field Mr. Collison figures will make a suitable range for the spring crop of pigs that is now coming on, and at the same time produce two good cuttings of alfalfa.

He says, where the hogs are confined to a small area there is danger of their eating it too close, nipping off the crowns and killing it, but where they have plenty of range they do little, if any, harm, and the effect on the hay crop is scarcely noticeable.

If the first crop grows extremely heavy it may be advisable to keep the larger ones out of the field for a week or two before cutting time, and it is also a good plan to keep them well rung. Ringing is seldom necessary with the spring pigs, however, especially if they be allowed some tankage along with the grain ration.—Pope.

NEW ANGLES ON AN OLD BUSINESS.

(Continued from page 661).

addition of linseed oil meal on one and one-half and three pound amounts to the standard corn belt ration increased the gains, increased the total daily feed consumption, but produced steers that shrank less enroute to the market and sold for a higher price on the Chicago market."

But the summary of the results of the cottonseed meal is not so favorable. He says: "The addition of cottonseed meal did not increase the gain, in fact, lots fed this meal made less gains than the check lots. However, these lots lost less weight while enroute to Chicago than the check lots.

It is a significant fact that an average of a large number of experiments conducted by stations all over the country bear out the results of this test, in so far that linseed oil meal is adjudged as being more valuable for feeding purposes than the cottonseed meal. It appears from a study of the experimental data that the linseed meal is worth a little better than one-third more than the cottonseed meal for dry-lot feeding.

Although, as Professor Evvard says, it is impossible to make dogmatic statements regarding the results of these experiments it is reasonably safe to answer the questions which were asked earlier in the article. To question number one, we must answer, "Yes, it does pay to feed a protein supplement to fattening cattle." To number two the reply is that linseed oil meal is more valuable for this purpose than the cottonseed meal. The answer to the third question as to the proper amount of protein to feed is still unsettled.

Going over into another group of tests which have been carried on it was shown that cattle which have been fed ground soy-beans in place of linseed oil meal make better profits than the ones fed linseed oil meal. It was shown that the ground soy-beans are even more profitable than the soy-bean oilmeal.

In connection with the experiments in cattle feeding, work has also been done along the line of mineral mixtures for fall pigs. A summary of these experiments leaves two salient impressions.

Hereford Steers

88 Wt. Around 650 lbs. 30 Wt. Around 800 lbs.
44 Wt. Around 600 lbs. 38 Wt. Around 700 lbs.
48 Wt. Around 500 lbs. 46 Wt. Around 600 lbs.
All dehorned, deep reds, good stocker order. Real quality Herefords are usually market toppers when finished. Anxious to sell, your choice one car load or all. Give number and weight preferred.

Van Baldwin, Eldon, Wapello Co., Iowa

Registered Jersey cattle, young bulls, for sale. Tuberculin tested. J. L. CARTER, Lake Odessa, 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
Now offering 2 January born 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.

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

Milking Shorthorn Bulls Best Clay breeding up to 11 mo. old, \$75 to \$200. Herd tested. Irvin Dean & Son, Crosswell, Mich.

FOR SALE Five Registered Shorthorn bulls from two to twelve months old. Tuberculin tested. S. G. Maichele, Middleville, Mich.

Yearling Shorthorn Bull For Sale
W. E. MORRISH, Flint, R. 5, Mich.

FOR SALE Roan Bull, 18 months old. Well-bred. Breeding. Clair I. Brown, R. No. 10, Kalamazoo, Mich.

HOGS

Berkshire Pigs of good type and breeding each for either sex. Boars ready for service at \$15.00 each. Sows bred to farrow in June at \$18.00 each. B. B. Reavey, Akron, Mich.

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.

DUROC 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.

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

Grand Champion Duroc Blood

Service boars and open gilts sired by Super Colonel, King Scissors and Top King 6th. Write us before buying. Headquarters for Colonel bred Durocs. Swine Division Lakeland Farm, Clarkston, Mich.

Rambler Durocs Herd headed by Pilot Orion 4th, who took 2nd place at the International. Herd founded from best blood in Michigan. March pigs \$15 and down as to grade. Rambler Farms, Harold Widdis, Baroda, Michigan.

DUROCS We have Sons and Gr. Sons of International Winner. Buy your fall boar now and save money. Let us tell you about our Sensation Durocs. J. M. WILLIAMS, No. Adams, Mich.

F or sale, One Registered Duroc-Jersey Boar, 2 1/2 years old. Price \$40. G. Hine, 419 Washington Ave., Bay City, Michigan.

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

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.

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

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

HORSES

Famers Attention

We have on hand a choice selection of Belgian and Percheron Stallions with size and quality and best of breeding, including some International and State fair prize winners, also Champion and Grand Champion. If your locality is in need of a good draft Stallion, let us know about it and we will try to place one on our breeding plan which will interest you. Write.

FRED G. STEVENS COMPANY, Inc.
Breckenridge, Michigan.

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.

FOR SALE 2 Thoroughbred Registered Percheron Stallions. Eri M. Kenyon, Evart, 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

EGG BRED CERTIFIED CHICKS

S. C. White & Br. Leghorns, S. C. Anconas.
May prices \$11.00 \$50.00 \$ 95.00
June 10.00 45.00 85.00
Mixed 8.00 37.50 70.00
Barred Rock 14.00 65.00 125.00
Shipped postpaid, 100 per cent live delivery guaranteed. Reference, Zeeland State Bank, Member Mid-West & International Baby Chick Assns.



Certified Chicks

at popular prices. We won 1st and 4th prize this year on English strain White Leghorn Men at the National Poultry Show, Chicago, also 1st 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.

"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.

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

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.



Chicks with Pep

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

QUALITY CHICKS

Strong Vigorous, Pure-Bred. The kind that live to produce a profit. From heavy producing English S. C. White Leghorns, (Barren 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.

LOOK BABY CHICKS \$9 a 100 and up. FREE FEED with order. Postage Paid. Live arrival guaranteed. 300 Egg Stock. Quality Supreme. Catalog free.
NABOB HATCHERIES, AVE. 20, GAMBIER, OHIO
Member Int. Baby Chick Ass'n.

BOS Quality: Class A Chicks Only:
Strong, healthy. From heavy layers. S. C. Tom Barron Eng. White Leghorns, Brown Leghorns 12c. Shepherds Anconas 13c. Assorted 10c. No money down with order. 100 per cent live delivery. Postpaid. Catalog free.
Bos Hatchery, Zeeland, Michigan, R. 2M.

Whittaker's R. I. Red

Chicks and eggs for hatching. Both Combs. Michigan's Greatest Color and Egg Strain. Reduced prices for the balance of the season.
INTERLAKES FARM, Box 39, Lawrence, 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.

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

First, that every mineral mixture should have certain backbone ingredients. They are, sodium and chlorine, as carried in common salt; calcium, as carried in high grade limestone and wood ashes; phosphorous as carried in bone products, and iodine as carried in potassium iodide.

The second thing to remember regarding mineral mixtures is that there is no best one. It all depends upon circumstances.

RE-BORN—A HOLSTEIN INFANT.

HOLSTEIN breeders of Newaygo county gathered April 18 at the Community Building at Fremont to reorganize their County Holstein Association. This can hardly be claimed as a newly-formed organization, but rather as a re-birth.

'Twasn't money glands that renewed the youth of the association. It was a bull. For when a company of eight Newaygo county breeders purchased at the recent State Holstein Sale the bull, Beaver Dam Sir Prilly Ardyn, Holstein interest took a big boost around the home county. And why shouldn't it? This sire, besides being a good individual, is one of the richest bred Holstein sires in the whole state. He is sired by a thirty-pound son of the great King Segis, who has eighty-eight tested daughters, eleven of which have records better than thirty pounds of butter in a week. His dam is a 1,232-pound yearly record daughter of Ormsby Korndyke Lad, that great bull who is unsurpassed by any sire of any breed for number of daughters which have made over 1,000 pounds of butter in a year. (Gerritt Meeuwenberg, of Fremont, secretary of the bunch which owns this new sire, promises a short write-up of their bull association soon).

So, the Newaygo County Holstein Association is off to a fresh start. The officers to guide the business for the coming year will be chosen by the board of directors from their number—Raymond Kempf, of Fremont; Nels Hansen, of Howard City; Gerritt Meeuwenberg, of Fremont; J. B. McCallum, of Holton, and D. H. Leenhouts, of White Cloud.

Members chose definite projects for the year to further cow testing association work for county Holstein breeders, with Meeuwenberg as deputy in charge; to encourage breeders to put their herds under state and federal supervision for the eradication of tuberculosis and to urge the county board of supervisors to appropriate funds for the purpose of cleaning up the county as other counties have done, Raymond Kempf has this responsibility.

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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" test cup. Action as smooth and natural as that of a calf. Write at once for descriptive folders and literature.

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UNITED ENGINE CO.
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DOG BOOK FREE

32 page book—how to keep your dog well—how to care for him when sick. Result of 36 years' experience with every known dog disease. Mailed FREE. Write today. Dept. 3105.
H. CLAY GLOVER, V. S.
129 West 24th St. New York

Ride a Ranger

Finest bicycle ever built. 44 styles, colors, sizes. SAVE \$10 to \$25. Cash or easy payments. Delivered free on approval and 30 Days Trial. No charge unless you are satisfied. Bicycles \$21.50 and up. Best quality at factory prices. Lamps, wheels, equipment. Write today for low factory prices, marvelous offers and Easy Payment terms.

MEAD CYCLE COMPANY
DEPT. C-77 CHICAGO

FARM WAGONS

High or low wheels—steel or wood—wide or narrow tires. Wagon parts of all kinds. Wheels to fit any running gear. Catalog illustrated in colors free.

Electric Wheel Co., 35 Elm St., Quincy, Ill.

HEAVES

Use 2 large cans. Cost \$2.50. Money back if not satisfied. One can at \$1.25 often sufficient. **NEWTON'S Compound for Worm Expelling, Conditioning, Heaves, Indigestion.** Distemper, Coughs, 65c and \$1.25 cans. At dealers or post-paid. **THE NEWTON REMEDY CO., Toledo, Ohio**



Save them all

Scours

Otto J. Hess
Worthington, Ia.

says: "I had several litters that were in terrible condition from scours. Ordinary remedies were useless. After feeding **Semi-Solid** for 3 days the pigs were entirely well."

White Diarrhoea
Wuerst & Gortz
Park Ridge, Ill.
says: "I did not have a single case of **White Diarrhoea** in a flock of 800 chicks."



Don't lose your baby chicks and pigs this year! Feed **Semi-Solid Buttermilk** and keep them healthy, strong and growing fast. Bigger, sturdier frames and faster gains at lower cost are obtained by **Semi-Solid** feeders everywhere.

If you are one of the farmers who is not yet using **Semi-Solid** give it a trial. Get a supply from your dealer today. You'll like it.

Semi-Solid Buttermilk

is buttermilk concentrated to point of greatest feeding and health value. Nearly all poultry fatteners and commercial poultrymen rely on **Semi-Solid** exclusively as the most valuable form of buttermilk. Their tests have repeatedly demonstrated its superiority pound for pound, dollar for dollar.

Look for the **Semi-Solid** label. It assures you not only the greatest feeding value, but also the full tonic and medicinal effects which have made **Semi-Solid** famous.

If your dealer does not carry **Semi-Solid** write us direct. 30 factories assure low freight costs and prompt shipment. Ask for the book, "The Story of Semi-Solid."

CONSOLIDATED PRODUCTS CO.
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Plants at 2536 3rd Ave., Detroit and Chicago, Ill.

TRACTORS HUBER THRESHERS

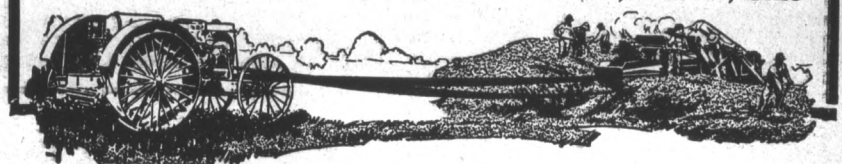
Get a Real Profit Out of Tractor Power!

THE Huber Super Four Tractor and Huber Supreme Thresher is an ideal outfit for the farmer who does threshing and uses his tractor for farm and belt work. It saves money by traveling faster over the roads, setting up quicker, starting quicker, and eliminating a man and team for water supply.

Furthermore the tractor is light enough to travel on plowed ground and will do all sorts of general farm work. It will pull three plows and turn an acre an hour. There is work for it every month in the year.
A smaller tractor outfit for threshing is the Huber Light Four and Huber Jr. Thresher.

Write for Printed Matter and Prices

The Huber Manufacturing Co., 114 Center St., Marion, Ohio



Just to Remind You of Winnwood Herd REDUCTION SALE

May 15th, 1924---Selling 60 Head

DAUGHTERS of Maple Crest Korndyke Hengerveld
DAUGHTERS of Flint Maple Crest Boy.
DAUGHTERS of Winnwood Ona.
DAUGHTERS of Sir Ormsby Syklark Burke.
DAUGHTERS of Tritomia Pietertje Ormsby Burke.
and line bred Segis blood.

There is plenty show type and production in this sale and there are others that can be bought at private treaty. Our business is breeding cattle to sell. You pick them and I will price them.
Sixty to 90 Days Retest Guarantee.

S. T. WOOD in the Box
WINNWOOD FARMS, John H. Winn, Inc.,
Rochester, Michigan

DISPERSION SALE

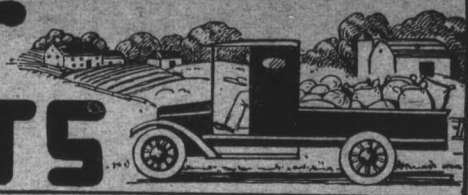
30 Registered Holstein Cattle
Tuesday, May 20, 1924 at 2 O'Clock

At Farm located 5 miles Southeast of Redford, 5 miles Northeast of Dearborn, corner Plymouth and Mill (Emerson) Roads.
(Herd under State and Federal Supervision). (Ninety day re-test privilege).
My Herd Sire by a 42-lb. bull and out of a cow with a large Semi-official record.
Two daughters of King of the Pontiacs Segis who is by King of the Pontiacs and out of a 33-lb. daughter of King Segis, one a full sister to a 33-lb. cow and from a 31-lb. dam, the other from a 29-lb. 3-yr.-old dam.
A 3-4 sister to White Beauty Pontiac Mahomet with 1,367 lbs. butter and 32,026 lbs. milk in one year.
Three cows with large Semi-official records and daughters from these cows.
A daughter and four grand-daughters of Maple Crest Korndyke Hengerveld, one of the only two living Century Sires.
A 27-lb. 10-mo.-old son of King Ona Champion. Three daughters of King Peter Segis Lyons.
Farm machinery will be sold previous to sale of cattle. For Catalogs, address,

MARTIN McLAULIN, Redford, Mich.



THE LATEST MARKET REPORTS



GRAIN QUOTATIONS

Wednesday, May 7.

Wheat.

Detroit.—No. 1 red \$1.12; No. 2 red \$1.11; No. 3 red \$1.08; No. 2 white \$1.12; No. 2 mixed \$1.11.
Chicago.—May \$1.04½@1.04¾; July \$1.06½@1.06¾; September \$1.07½.
Toledo.—Cash \$1.11½@1.12½.

Corn.

Detroit.—No. 3, 82c; No. 4 yellow 79c; No. 5, 74@76c.
Chicago.—May 75½@76¼c; July at 77¼c@77¾c; September 76¾c.

Oats.

Detroit.—Cash No. 2 white at 54c; No. 2, 51c.
Chicago.—May at 47¼c; July 44¼c; September 40¼c.

Rye.

Detroit.—Cash No. 2, 70c.
Chicago.—May 64¾c; July at 66¼c; September 68¼c.
Toledo.—68¼c.

Barley.

Barley, malting 85c; feeding 80c.

Beans.

Detroit.—Immediate and prompt shipment \$4.35@4.40 per cwt.
Chicago.—Navy \$5.10; red kidneys \$7.25.
New York.—Choice pea \$5.25@5.35; red kidneys \$7.25@7.35.

Seeds.

Detroit.—Prime red clover cash at \$10.80; alsike \$9.50; timothy \$3.50.

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, Jon-Baldwins \$3.25@3.50; Steele Red \$4@3.30; Steele Red \$4@4.50; Wine-saps \$3@3.50.

WHEAT

Wheat prices have developed decided strength in the last few days. The fact that grain delivered on May contracts went to people who wanted it, increased export buying of Manitoba wheat with a sharp advance at Winnipeg and growing realization that improvement in the wheat market is a strong probability in the next year were some of the high lights in the situation. Private forecasts of the new winter wheat crop run about 12,000,000 bushels below last year's harvest and the present condition is not quite as promising as a month ago. A sharp reduction in spring wheat acreage is known to have taken place. Altogether it will not be surprising to see a reduction of 200,000,000 bushels in the world crop. If consumption is not reduced, the smaller crop will dispose of most of the excess in supply by the end of the next crop year.

RYE

Rye prices have turned strong in the last few days partly in sympathy with other grains and partly because of expectation that rye will be included in the provisions of the McNary-Haugen bill. The new crop promises only a moderate yield but with the certainty of a large carry-over, the total supply for the crop year will be heavy again. Sales for export to Northern Europe have been reported in the last few days.

CORN

The heavy movement of corn to primary markets and reports of a sluggish demand have been neutralized by large shipments from primaries which have necessitated rapid withdrawals from the visible supply at terminals. If the present rate of disappearance keeps up, stocks in commercial channels will be whittled down enough to induce an advance in corn prices during the summer months although it seems likely to be less than the usual seasonal upturn. Cold weather is delaying planting of the new crop to some extent although there is still time for the bulk of the work to be done by the average date. Market increases in acreage are reported in various parts of the northwest.

OATS

Oats prices are firm with the small visible supply, moderate receipts and a fairly broad demand the supporting

factors. The new crop outlook is rather favorable, although the acreage seems not to have been increased as much as expected.

SEEDS

Demand for most clover and grass seeds has subsided distinctly and prices have declined. Alfalfa and sweet clover are stronger than the others because of increased planting this season and small remaining stocks. Demand for soy-beans is broad but the stocks of most varieties are ample and prices are easy.

FEEDS

Extreme weakness in bran and middlings was the feature of the week's feed market. The recent spurt in demand did not last long. Oil meals have not shown the extreme softness noted in wheat feeds as offerings are being reduced and the new crop supply is several months distant.

HAY

Best grades of timothy hay are still bringing firm prices at most markets as receipts are light. Lower grades are dull everywhere. Alfalfa markets are sagging with buyers awaiting the new crop, although a fair demand for good dairy hay persists. Southwestern new crop alfalfa is being attracted toward California as the foot-and-mouth quarantine prevents marketing of cattle and drought has not been entirely relieved.

BUTTER

The trend of butter prices was downward again last week although the decline was checked at the close. Receipts at the four markets were considerably larger than in the preceding week, the time before grass butter begins to make an appearance is short, and consumptive demand, although good, has not increased as much as was expected with prices on the present level. Quality of receipts is only fair so that dealers are reluctant to store current arrivals, even though prices are reasonable. Imports are practically over until June prices have been established. Present price levels do not make a favorable market for foreign butter.

Prices were: 92-score creamery butter, Chicago 36c; New York 38c. In Detroit fresh creamery in tubs sells for 36c.

POULTRY AND EGGS

Egg prices were fairly steady last week as many dealers believe they are close to bottom for the season. Liberal receipts will be a weakening factor, however, in any advance from the present price levels. Consumption of eggs is good. Receipts at the four leading markets to May 1 were nearly half a million cases less than last year

in spite of the increased production, and a larger portion of the smaller receipts has been consumed. Distribution of eggs into consumptive channels from the four large markets during the first four months of 1924 was slightly heavier than in the same period last year. Consumption in the country probably would show a like increase, as prices to producers have been considerably below those of a year ago. Storage holdings at the four markets on May 1 were 1,223,914 cases compared with 1,410,727 cases on May 1, 1923.

Chicago.—Eggs, miscellaneous 21@21½c; dirties 19c; checks 19c; extras at 27½@28½c; fresh firsts 22@22½c; ordinary firsts 20½@21c. Live poultry, hens 26c; broilers 45@52c; roosters 15c; ducks 28c; geese 16c; turkeys 20c pound.

Eggs, fresh candled and graded 22@22½c. Live poultry, broilers 60@65c; heavy hens 30c; light hens 24@25c; roosters 18c; geese 18c; ducks 32@35c; turkeys 28@30c.

BEANS

The bean market dropped last week to \$4.50 per 100 pounds for C. H. P. Whites f. o. b. Michigan shipping points. Demand has been light and even at this figure there is little buying. Stocks are ample as the movement into distributing channels has been light for several weeks. Around the middle of May the harvest demand usually develops so that the market is expected to hold at this level and it may do a little better. Favorable contracts offered by the sugar companies also are having a strengthening effect as the bean acreage may be cut if prices work lower.

POTATOES

Old potatoes are slightly lower than a week ago, while new stock from Florida declined rather sharply. U. S. No. 1 northern round whites are quoted at \$1@1.25 per 100 pounds sacked and \$1.10@1.25 in bulk in Chicago. Carload shipments of old potatoes have declined nearly 60 per cent in three weeks, while new potato shipments have trebled in the same time. New stock now comprises about 20 per cent of the total movement.

APPLES

Apple markets are dull and weak with midwestern A-2½-inch Northern Spies at \$5@5.50 and Baldwins \$2.50@4 a barrel in Chicago. Carlot shipments have declined each week, without interruption since the end of February but are above normal for this season of the year. Other fruits are offering increased competition.

CHEESE

Cheese prices strengthened last week although buying was slow and dealers continued their cautious man-

ner. Unchanged country markets were largely responsible for the steadier undertone. Asking prices were higher in some instances and prices generally were firm with no concessions being offered.

Prices on No. 1 American cheese: Chicago, Twins 17¼@17½c; single daisies 17½@17¾c; double daisies at 17¼@17½c; Longhorns 17½@17¾c. Swiss, round, selected fancy at 38c; choice 33@34c; limburger, fancy 27c; brick, fancy 14c; choice 13c.

New York.—Flats 16@17c; single daisies 18½@19½c; Young Americas 19½@20c.

Philadelphia.—Flats 18@18½c; single daisies 18½@19c; Longhorns at 18½@19c.

WOOL

A slightly larger volume of wool is changing hands at the seaboard and some of the larger manufacturers are buying in the west. Prices have been well maintained at recent levels. Re-exports are still taking place from Boston although in smaller amounts. Foreign markets are strong. Repeat orders for goods are being placed with manufacturers but the goods market is still below par, and manufacturers have rather large stocks. Total consumption of wool in the first three months of 1924 was 18 per cent less than a year previous. Sales in Utah and adjoining sections are reported at 42 cents; in Nevada at 43 cents; Wyoming 41@43½c, and Texas twelve months' wool at 46 cents. The Boston prices are as follows:

Ohio and Pennsylvania fleeces: Fine strictly combing, 55@56c; fine clothing 47@48c; ½-blood strictly combing 55@56c; ½-blood clothing at 47@48c; ¾-blood strictly combing 54@55c; ¾-blood clothing 47@48c; ¼-blood strictly combing 51@52c; ¼-blood clothing 44@45c; low ¼-blood strictly combing 46@47c; common and braid 42@43c.

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

DETROIT CITY MARKET

Offerings of produce were liberal and buying was moderate. The large supply of green onions cleaned up easily, mostly at 40c a dozen bunches. Liberal offerings of sorrel, dandelions and spinach found little sale. Rhubarb moved easily through outdoor stock was rather slow at 80c@81 per dozen bunches of eight to ten stalks each. First-class horseradish, leeks, and parsley had easy sale. Carrots and parsnips were moderate sellers, while beets and other roots had little sale. Potatoes were in moderate supply and moved easily. The demand for apples was light. The small supply of poultry had easy sale, while eggs were rather slow. Little veal was offered and prices were lower. Prices were as follows: Apples, fancy \$2@2.50 a bu; No. 1, \$1.25@1.75 bu; beets, round \$1.25@1.50 bu; cabbage \$1@1.25 bu; carrots \$2.25@2.75 bu; French endive 25@30c lb; horseradish, fancy \$6@7.50 bu; No. 1, \$3.50@4.50 bu; leeks \$1@1.25 dozen bunches; onions, dry \$1@1.25 bu; green 35@50c per dozen bunches; parsley \$5.50@6 bu; parsnips \$2@2.50 bu; potatoes 80@90c bu; vegetable oysters 75c dozen bunches; sorrel 75c@81 bu; dandelions 75@81 bu; spinach \$1@2 bu; chives \$1 dozen; pansies \$1.75@2.25 for 15-box flat; eggs, wholesale 23@27c dozen; retail 25@30c dozen; live hens, wholesale 29@30c lb; retail 32@35c lb; veal 11@14c lb. dressed.

GRAND RAPIDS

Farm produce prices averaged lower on the Grand Rapids market this week. Increased supplies of rhubarb, spinach, radishes and apples had a depressing influence but quotations on other commodities continued steady to firm. Prices follow: Rhubarb \$1@1.50 bu; spinach \$1.25@1.50 bu; dry onions 50c bu; green 10@12½c bunch; silver skin 15c bunch; potatoes 55@60c bu; parsnips \$1.75 bu; leaf lettuce 20@22c lb; radishes 65@75c dozen bunches; apples, fancy Spys \$1.50@3 bu; ordinary apples 50c@51 bu; beans \$4 per cwt; wheat 95c bu; poultry, lower; fowls 18@22c lb; broilers 40@50c lb; eggs weak, mostly 19c dozen; live stock is steady; pork 10c lb; lambs 28@30c; beef 5@15c.

COMING LIVE STOCK SALES.

Holsteins.

May 15.—Winnwood Farms, Rochester, Mich. Reduction sale.
May 20.—Martin McLaughlin, Redford, Mich. Dispersion sale.

Live Stock Market Service

Wednesday, May 7.

CHICAGO

Hogs.

Receipts 21,000. Market fairly active; strong to 5c higher, mostly higher. Lights 5@10c up; packers inactive. Bulk of good 250 to 325-lb. butchers \$7.45@7.55; tops at \$7.60; better grades 160 to 225-lb. weights mostly at \$7.25@7.50; good 140 to 150-lb. average \$6.85@7.20; bulk of packing sows at \$6.75@6.90.

Cattle.

Receipts 12,000. Market on most killing classes slow; beef steers, yearlings and fat she stock steady; others weak; stots lower; early top steers at \$12.35; others \$11.75; bulk feeding steers at \$8.50@10.50; light yearlings, heifers, numerous stockers and vealers strong to 25c higher; mostly \$8@9.25.

Sheep and Lambs.

Receipts 13,000. Market fairly active; early sales of fat lambs steady to strong; sheep 25c higher, very scarce. Good woolled lambs early \$17; choice clipped at \$15.50@15.65; few spring lambs \$16.75; woolled ewes \$9.25; fat clipped ewes \$8.25@8.50.

DETROIT

Cattle.

Receipts 350. Market strong. Good to choice yearlings \$9.50@11.00. Best heavy steers 8.50@10.00. Heavyweight butchers 7.75@9.50. Mixed steers and heifers 7.50@8.50. Handy light butchers 6.50@7.50. Light butchers 5.50@6.50. Best cows 5.75@6.75. Cutters 3.50@4.00. Butcher cows 4.75@6.00.

Canners 2.50@3.50. Choice bulls 5.50@7.00. Bologna bulls 4.50@5.50. Stock bulls 3.75@5.00. Feeders 6.25@7.50. Stockers 5.50@6.75. Milkers 45@85.

Veal Calves.

Receipts 855. Market steady to 50c higher. Best 11.50@12.50. Culls and heavies 5.00@10.00.

Sheep and Lambs.

Receipts 151. Market steady. Best lambs 15.00@15.25. Fair 11.50@13.75. Fair to good 6.00@8.00. Light to common 8.00@10.25. Culls and common 2.00@5.00.

Hogs.

Receipts 3,245. Market steady. Mixed and heavies 7.60@7.70. Pigs 6.75@7.00. Roughs 6.25. Yorkers 7.25@7.75.

BUFFALO

Cattle.

Receipts two cars. Market steady. Calves at \$12.

Hogs.

Receipts 20 cars. Market is strong. Heavy and yorkers \$8@8.10; pigs at \$7.25.

Sheep and Lambs.

Receipts three cars. Market steady. Top lambs \$15.50; yearlings at \$11@12.50; wethers \$9@10; ewes \$8@8.50.

COUNTY CROP REPORTS.

Newaygo Co., April 28.—Labor is scarce. Pigs are about the same as last year, while lambs will run about one-half the usual crop. Winter grains are fairly promising and prospects are good for fruit. Farmers are planting what they can care for alone. Generally speaking, prices are low.—C. B.

Osceola Co., April 29.—The weather is rather cold and backward. There is sufficient labor to satisfy the demand, which is light. The pig and lamb crops are fully one hundred per cent. Winter grains and fruit are good. A normal acreage of crops is being put in.—P. E. R.

Calhoun Co., April 28.—About seventy-five per cent of oats are sown. Spring is late. Not much help to be had. Wheat and rye are both looking well. The outlook for hay, especially clover, is not promising, owing to last year's drought. The usual acreage of corn and oats will be planted. Fewer hogs are in evidence than usual. No wool quotations are offered as yet. Butter-fat 35c; eggs 20c; wheat 99c; rye 61c; oats 48@50c; hay \$20; cows \$45@75.—F. E. S.

Mason Co., April 28.—No oats sown, and very little plowing done. Grass is slow in starting. Fruit is promising. Nearly every one spraying. The corn acreage will be about normal, oats about 75 per cent, and potatoes about 80 per cent. Old potatoes are being marketed rapidly. About 80 per cent of an average pea crop will be planted. Hay \$15@20 per ton. Dairying is the most profitable farm occupation here.—G. M. T.

Missaukee Co., April 26.—Weather conditions are favorable for seeding. Labor supply light, but demand from farmers is also small. Pig and lamb crops are larger than usual. Winter grains in good condition, as are also meadows. Stock is healthy. With the exception of potatoes, normal plantings will be made. Markets: Hay \$14; oats 45c; rye 55c; wheat \$1.10; potatoes 90c cwt.; cream down to 33c; eggs 15c.—H. S. S.

SPOHN'S DISTEMPER COMPOUND

Horses and Mules

can be kept on their feet and working if owners give "SPOHN'S" for Distemper, Influenza, Shipping Fever, Coughs and Colds. Cheapest and surest means of escaping these diseases. Occasional doses work wonders. Give "SPOHN'S" for Dog Distemper. Used for thirty years. 60 cents and \$1.20 at drug stores.

SPOHN MEDICAL CO. CINCINNATI, IND. U.S.A.

DIRECT FROM FACTORY

Service
Overalls

138

578

579

580

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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.

BERRY SUPPLIES

A grade Berry Baskets (wood) and 16 quart crates. 4% cash discount till May first. Send for price card. See supply catalog for the asking. General agents in Michigan for Root's goods.

M. H. HUNT & SON

BOX 525

LANSING, MICH.

FOR SALE Senator Dunlap, Dr. Burrell and Gibson Strawberry Plants. None better at any price. 50c per 100; \$4.00 per 1,000. delivered. John J. Williams, Fremont, Mich.

300 STRAWBERRY PLANTS \$2 POST PAID
HAMPTON & SON, R. 3 Bangor, Mich.

SEED CORN

Northern Grown Yellow Dent FOR IMMEDIATE DELIVERY

High Germination. Suitable for Michigan. Price per bushel \$3.90, while supply lasts. Bags free. Place order now.

BROWN SEED STORE,
9 Ionia Ave., N. W. GRAND RAPIDS

Ship Your Poultry

Direct to
DETROIT BEEF CO.

Write for our shippers' guide, how to ship live poultry, how to dress and ship dressed poultry.
Detroit Beef Co., Detroit, Mich.

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.

Holmes, Stuve Co., 2429 Riopelle St.

Commission Merchants. Dressed Beef, Hogs, calves, Poultry, Live & Dressed. Provisions, etc. Correspondence Solicited. Ref. Wayne County & Home Savings Bank. Bradstreet. Detroit, Mich. Cherry 7654

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.

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

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. King 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.

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 3 cents a word, each insertion, on orders for less than four insertions; for four or more consecutive insertions 6 cents a word. Count as a word each abbreviation, initial or number. No display type or illustrations admitted. Remittances must accompany order. Real estate and live stock advertising have separate departments and are not accepted as classified. Minimum charge, 10 words.

Rates in Effect October 7, 1922					
Words	One time	Four times	Words	One time	Four times
10.....	\$0.80	\$2.40	26.....	\$2.08	\$6.24
11.....	.88	2.64	27.....	2.16	6.48
12.....	.96	2.88	28.....	2.24	6.72
13.....	1.04	3.12	29.....	2.32	6.96
14.....	1.12	3.36	30.....	2.40	7.20
15.....	1.20	3.60	31.....	2.48	7.44
16.....	1.28	3.84	32.....	2.56	7.68
17.....	1.36	4.08	33.....	2.64	7.92
18.....	1.44	4.32	34.....	2.72	8.16
19.....	1.52	4.56	35.....	2.80	8.40
20.....	1.60	4.80	36.....	2.88	8.64
21.....	1.68	5.04	37.....	2.96	8.88
22.....	1.76	5.28	38.....	3.04	9.12
23.....	1.84	5.52	39.....	3.12	9.36
24.....	1.92	5.76	40.....	3.20	9.60
25.....	2.00	6.00	41.....	3.28	9.84

Special Notice

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

MISCELLANEOUS

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 1,000. 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.

TOMATO PLANTS—ten million now ready. Open field grown, large, hardy stock 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 hardy field grown cabbage plants. Wakefield, Copenhagen and Flat, 300, 75c; 500, \$1.25; 1,000, \$2.00. Tomato standard varieties, 300, \$1.25; 500, \$1.50; 1,000, \$2.50, all postpaid. 10,000 either, expressed, \$15. Good order delivery guaranteed or money back. Maple Grove Plant Farms, Franklin, Va.

SEED BEANS grown from certified Robust Seed in condition for planting. Germination practically 100 per cent. We believe this seed will give satisfaction to the commercial grower. Price three dollars per bushel. Freight prepaid on ten bushels or more. Seed from elite stock all contracted. A. B. Cook, Owosso, Mich.

FROST PROOF Cabbage and Tomato Plants, all varieties. Parcel Postpaid, 500, \$1.50; 1,000, \$2.50. Express collect, \$1.50 per 1,000; 10,000 and over, \$1.00 per 1,000. Satisfaction guaranteed. Reference, Bradstreet and Bank of Tifton. Tifton Plant & Potato Company, Inc., Tifton, Ga.

CABBAGE PLANTS—300, 60c; 500, \$1.00; 1,000, \$1.50. Potatoes and Tomatoes, \$3.50 per 1,000. Vassar Plant Co., Franklin, Virginia.

REGISTERED Manchu Soybeans and Duncan Yellow Dent seed. Limited quantity of each for sale. Now is the time. A. G. Wilson, Mason, Mich.

FOR SALE—1,300 lbs. 1922 early yellow dent seed corn. 98 per cent germination. Like to sell in big lots. Martin Hoffman, Carleton, Mich.

HEALTHY PLANTS—200 Dunlap Strawberry, \$1.25; 300 Red Jersey Sweet Potato, \$1.00; Both, \$2.15. Postpaid. Robert Bennett, Grandview, Indiana.

FINE PLANTS—200 Dunlap Strawberry, \$1.25; 250 Nancy Hall Sweet Potato, \$1.00; Both, \$2.15. Postpaid. Robert Bennett, Grandview, Indiana.

CABBAGE AND TOMATO PLANTS. Finest Quality. All leading varieties, \$1.00 per 1,000 express (not prepaid). W. L. Beardin, Tifton, Ga.

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

FOR SALE—Certified Russet Rural seed potatoes \$1.00 per bu. Serradella Farm, Oscoda, 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.

BE A BRICKLAYER—Good Pay. Interesting outdoor work. Tuition \$25.00 per month, five days per week, eight hours per day. Course four to six months, according to student's ability. Send for Circular. Associated Building Employers of Michigan, 123 A. B. E. Building, Grand Rapids, Mich.

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

WANTED—Standing timber of all kinds. Good prices. Chas. L. Borch, 57 Oakdale Blvd., Pleasant Ridge, Detroit.

FOR SALE—Barn Frame with yellow pine siding. 30x40. E. C. Hockey, Redford, Mich.

FOR SALE—3 Portable Saw Mills. First Class Condition. Priced right. Hill-Curtis Co., Kalamazoo, Mich.

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.

FOR RENT—Nearly 3,000 acres, fenced, for sheep or cattle grazing. Good barns, water, and grass. Write Ranch of the Plains, 228 Michigan St., N. W., Grand Rapids, Mich.

COMMISSION FIRMS

GET MORE for your eggs by shipping them to us. Produce Commission Co., 34 Chatham St., Boston, Mass.

PET STOCK

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

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, five pounds, \$1.75; ten, \$3; smoking, five pounds, \$1.25; ten, \$2; pay when received, pipe and recipe free. Co-operative Farmers, Paducah, Kentucky.

BABY CHICKS

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 by experts. \$15.00 per Hundred, after May 15th. \$13.00. Postpaid. Delivery guaranteed. Order from this ad. Kruer 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.

HAI 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.

CHICKS—All Popular Varieties. Egg production and Standard Quality. State Fair Winners. No better chicks available at same price. Extremely low prices after May 20th. Litchfield Hatchery, Litchfield, 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.

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

WHITE ROX. Barred Rox. Superior quality farm range stock, 2,000 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.

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

POULTRY

BARRED ROCKS—Park's best pedigreed stock, mated with M. A. C. and Dennison pedigreed 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 and Eggs by 100 or 1,000 lots, all leading Varieties Chickens, Ducks, Geese, Bantams, Guineaes, 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.

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.

MAMMOTH BRONZE TURKEY eggs, \$4.00 for 9, \$7.50 for 13. 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.

TEN EGGS—pure Toulouse geese \$5.00. Fifteen eggs, pure R. I. Reds, \$1.50. Insured parcel post prepaid. Mrs. Amy Southworth, Cassopolis, Mich., R. 2.

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

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.

TURKEY EGGS Mammoth Bronze, \$3.60 for 9 eggs or 6 baby Turks \$5.40. Mrs. Walter Dillman, Dowagiac, Mich.

WHITE WYANDOTTES Exclusively. Eggs \$4.50 per 100. Prepaid. Raymond Eash, Shipshewana, Indiana.

SILVER LACED and White Wyandottes. Eggs \$1.50 per 15. Prepaid. C. W. Browning, Portland, Mich.

SCILIAN Buttercup eggs, \$1.50 per 15. \$2.50 per 30. Lloyd Prause, Maple City, Michigan.

TURKEY EGGS—White Holland, 50 cents each, postpaid. Mrs. Frances Lindberg, Hessel, Mich.

NARRAGANSETT Turkey eggs, pure blood, 11 for \$5.00, delivered. Ernest Clement, Ionia, Mich.

HELP WANTED

HOUSEKEEPER WANTED—An elderly couple want healthy working housekeeper, not over forty, to take full charge of home. Good wages. E. H. Houghton, Mt. Clemens, Mich., R. F. D. No. 4.

TEACHER for out of town summer position; train fare paid; good salary plus bonus. Write Dept. "C," 2011 Park Avenue, Detroit, Mich.

WANTED—Young man who wishes to learn the bee-business for coming season. Earl Baker, Lake City, Michigan.

RURAL HEALTH

By Dr. C. H. Lerrigo

TAKING THE AIR.

THERE is no room for difference of opinion as to the fact that the best and most necessary of all agencies for health is the free and unlimited use of God's fresh air. Theoretically, we all agree as to this, but in actual practice there is evidently wide difference of opinion.

We will find the person who has a conviction that it is very dangerous to breathe "night air." The fact that there is no other kind available between dusk and dawn should dispose of these critics. But a much larger class is composed of those who are afraid of chill or raw air, and who are, therefore, inclined to keep all bedroom windows closed in any but the mildest weather. They are making a mistake.

A person who is snug in a warm bed may safely breathe the rawest air that blows, providing that he inhales it through the nose, as intended by nature. Those who think of the nose only as a detective agent for protection against bad smells may be surprised to know that one of its most important functions is that of warming up the air so that it is of suitable temperature for the lungs.

There is no question that weak lungs are often so because their owner persistently leaves a large part of the margin of the lungs unused. The tissue is never inflated and so it deteriorates. The capacity of the breathing apparatus is seriously diminished. It may not shorten life unless an attack of pneumonia or other affection of the lungs is experienced, but it certainly reduces the feeling of well-being, vigor, pep, and purpose that a person in normal health should enjoy.

Many articles, and even books, have been written urging that this be overcome by adopting daily habits of deep breathing, etc. Stand before your open window and take fifteen inhalations, filling the lungs to their greatest capacity, is common advice. But it is not well considered. The average person simply does not do that kind of thing. He may attempt it and keep it up for a few days, but not one in a hundred will persist for a year.

The best plan is to engage every day in some work or play that is strenuous to make you breathe deeply.

ANKLE SWELLS.

I had typhoid fever in bad form last fall. Was very sick for ten weeks. I am now better; have good appetite and kidneys work all right; but my left ankle swells and foot is swollen somewhat. What do you think is the cause? I am now under the care of a physician. Please tell me what you think is the cause.—W. J. G.

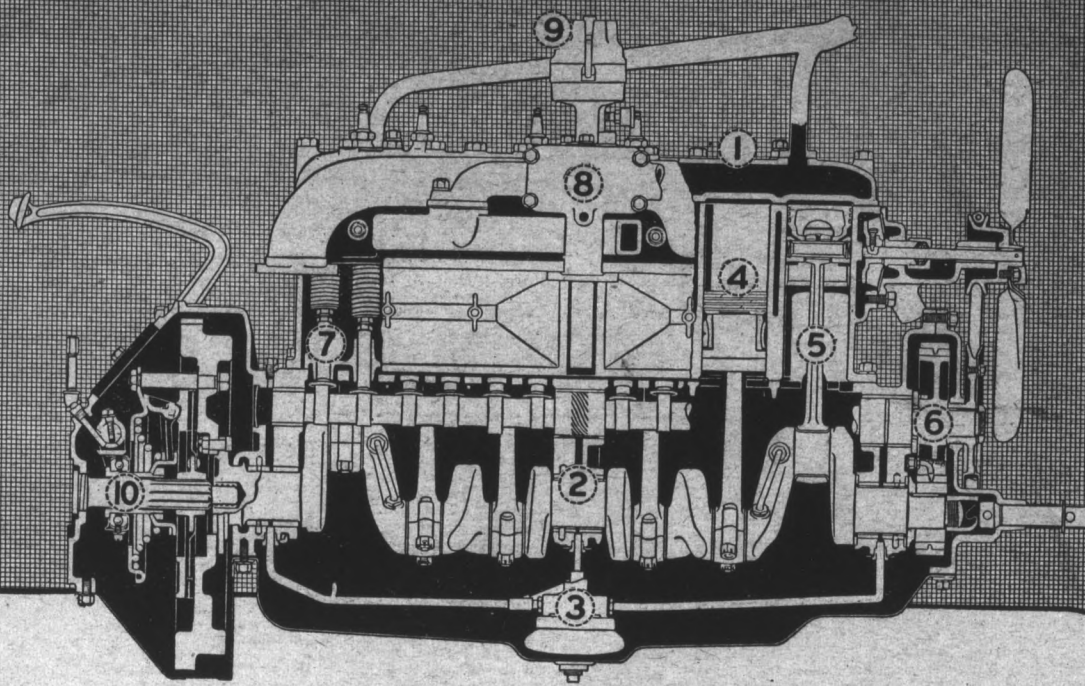
You should go back to your doctor and stay under his care until entirely well. There are many things that might account for the swelling of the ankle, chiefly some circulatory trouble or kidney insufficiency.

EYE WEAKNESS.

My two-and-a-half-year-old daughter squints a great deal. Is it evidence of eye trouble? My infant daughter, aged two months, is a normal child in every way, but one: I had the misfortune to mark her ears after the picture of a fiend's at a theater, when nothing of the sort was expected. What will it cost to have a specialist operate, and can it be safely done? Please answer through the Michigan Farmer.—C. H. S.

The squint indicates weakness of some of the muscles or tendons of the eye. It can be corrected and perhaps the correction can be made by fitting glasses, if you begin early.

Put away the idea that you "marked" the ears of your baby. Absolutely nothing to it. It is impossible to say at two months of age if anything should be done by way of operation. Wait a while.



Here are the Reasons for the Power, Smoothness and Endurance of Oakland's Six-Cylinder Engine

① Oakland's new six-cylinder L-head engine is of the most advanced design. Its remarkable performance is the logical result of competent engineering and high grade construction throughout.

② The large, perfectly-balanced crankshaft runs in big, special, bronze-backed bearings. These patented bearings, on which smooth and trouble-free engine performance depends so much, are positively the best that money can buy.

③ Lubrication is force feed by means of a reliable gear-type oil pump. Main, camshaft and connecting-rod bearings and timing chain are continually bathed in oil. This positive lubrication adds greatly to the quiet operation and long life of this True Blue engine. No better oiling system has been developed.

④ Oakland cylinders are honed smooth as glass on special machines. Pistons and rings of the latest design are individually fitted into each cylinder with extreme care and precision. Vibration and wear are practically eliminated by this process.

⑤ The connecting rods are light and strong. The babbitt-lined bearings are permanently bonded to each

rod with pure tin—the most approved process and also the most expensive.

⑥ The camshaft is driven by a silent chain running in a bath of oil. This is conceded the best type of drive and the most accurate. There is a convenient external adjustment.

⑦ Oakland valves are of special, heat-resisting alloy steel. So efficient are they, that valve grinding is necessary only at very rare intervals.

⑧ The intake manifold is scientifically designed to insure perfect fuel distribution to all cylinders, and therefore smooth, economical operation. There is a handy temperature adjustment for summer and winter.

⑨ The electrical system maintains Remy standards of excellence. The spark control is entirely automatic, which means that the engine will deliver the maximum of power under all conditions.

⑩ The single-plate disc clutch is simple and durable. It is self-adjusting for wear. Its smooth operation is, in no small way, responsible for the remarkably easy gear shifting of the True Blue Oakland.

In no other car can such high quality and so many advanced features be had at Oakland's price.

OAKLAND MOTOR CAR COMPANY, PONTIAC, MICH.

Touring Car . . . \$995
Roadster . . . 995
Sport Touring . . . 1095
Sport Roadster . . . 1095
Business Coupe . . . 1195

Coupe for Four . . . \$1395
Sedan . . . 1445

All prices f. o. b. factory
Oakland's Special Payment
Plan Saves You Money

True Blue
Touring Car



\$995