

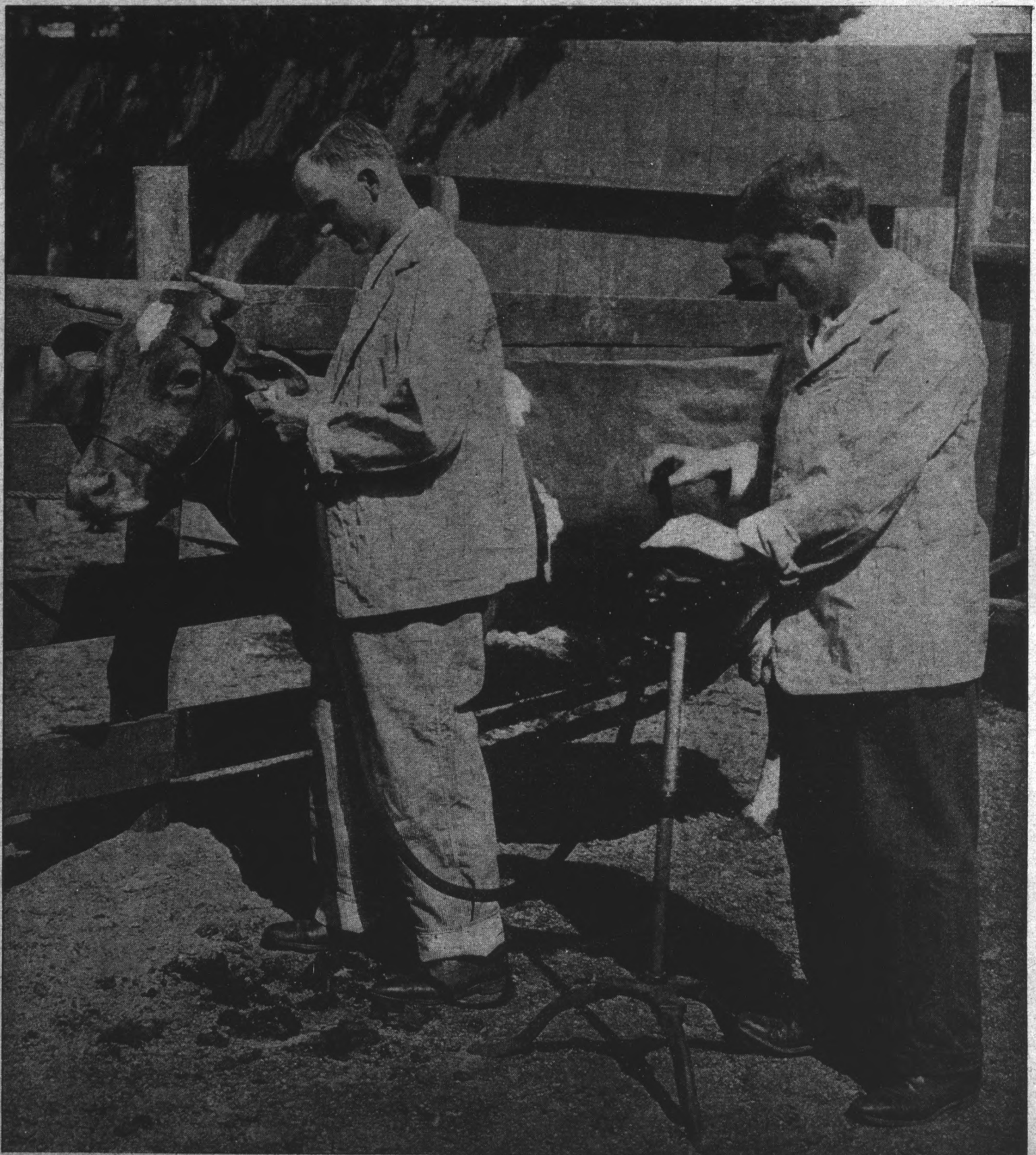
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DETROIT, APRIL 28, 1923

CURRENT COMMENT

The more interest we give to our work, the less interest it is likely that we will have to pay for borrowed money.

Many make fortunes with "confidence games" because others put their confidence in the wrong place.

Before we know it we will be complaining about hot weather.

In this backward spring, doing the right thing at the right time is what counts.

Promises of easy money are so alluring that we usually pay our hard-earned money for them. And all we get is promises.

The farmer's success is going to depend upon the business he gets. If he waits for the buyer to look him up, or his neighbors to tell everybody about his goods, he is expecting too much of human nature, and it will be a long time before his sales will reach any noticeable volume.

Cooperation has succeeded because it eliminates the high costs and wastes of competitive selling, the economic control of organization by stock ownership and the claims of capital for all the profits. Basically, it is efficient, economical, just, and democratic. It is an improvement over old methods and is, therefore, an assured factor in our economic life.

Fred M. Warner

EX-GOVERNOR FRED M. WARNER died on April 17, at Orlando, Florida, where he went about two months before his death in an effort to recover his health, which had been failing for the past two years. He was buried at Farmington on April 20, the funeral at his home being attended by a large host of friends from all parts of the state, as well as his neighbors and fellow citizens from every walk of life. No higher tribute to the usefulness of his strenuously active life could have been rendered than was paid by the thousands who were present at his funeral service.

Aside from the service he rendered to his town and the people of the community in which he lived, few men have exerted so wide or so wholesome an influence in the state of Michigan, of which he was three times elected governor, after having served the commonwealth as secretary of state and state senator for two terms each. His

administration of public affairs was as straightforward and business-like as was the conduct of his own business affairs and won for him a large host of friends among the common people of the state, as evidenced by the fact that he was the only man ever three times elected governor of the state, the last time against bitter political opposition.

Fred Warner, as he was always called by the thousands who knew him personally, was actively interested in agriculture, owning and operating a farm at Farmington at the time of his death, and for many years developing and operating a large farm in Huron county. He was actively interested in the dairy business during his entire business life, both as a producer and manufacturer of dairy products, and was instrumental in the passage and enforcement of many laws of benefit to the industry in this state. His most recent public service to the industry



was as a member of the Detroit Area Milk Commission, which operated to regulate prices in the Detroit market milk area during the post war period.

As a public servant and as a man among men, Fred Warner had no peer in his home town, his home county or his home state. Cut off by death at the age of fifty-eight years, his accomplishments stand as an enviable record. His death will be mourned by an exceptionally wide circle of friends, as well as his immediate family. He is survived by his wife, two sons and two daughters, all residents of his home county.

Business
is
Growing

IN recent years, we have seen a most remarkable development in the commercial activities of farmers' cooperative associations. Here in Michigan this work may be said to have started with cooperative creameries. Today, the commercial activities of these creameries constitute but a small fraction of the business done by these democratic institutions. Our potato growers' exchange, cooperative elevators, milk producers' associations, fruit growers' associations, live stock exchange, all testify to the rapid expansion of the cooperative idea in the farmer's business.

The capacity of these associations has also been increased. Fifteen cooperatives which did a business of \$855,000 back in 1913, transacted \$2,404,000 worth of business in 1921. In other words, the commercial activities of these fifteen cooperatives grew 181 per cent during these eight years.

Despite this growth, we are looking forward to still greater achievements in days to come. During this pioneer period there has been developed a factor which is fundamental to the success of these institutions. Cooperation depends upon loyalty, integrity, and unselfishness. In the communities where these institutions have succeeded, there has been a trained generation of men who have forbearance and the cooperative spirit.

These men are ready "to bear one another's burdens." They will undertake new cooperative enterprises with confidence and should succeed with them far more quickly than has been the case with similar undertakings in the past. Because of the presence of this factor we expect greater things from cooperation in the near future.

Better
Times
Coming

THE general trend of events, which at the present time is drawing so many people cityward, can have but one result from the farmer's viewpoint. Barring some public or national interference with the law of supply and demand, it can but hasten the day when better times shall return to the fields.

A lower production of food will inevitably result from the withdrawal of men by the thousands from the channels of food production. The entry of these same thousands into city industries can not help but increase the demand for food products.

Let us hope that the prosperous conditions now prevalent may remain in the cities so that they can buy liberally of our products. In that case it cannot take long for supply and demand, which together constitute the great balance wheel of civilization, to again favor the farm and change it from a liability into an asset.

Economic fortune invariably follows him who runs counter to the current; who sells when others want to buy; who buys when others want to sell. Good farms can be bought cheap today, when most people are looking toward the cities. Who knows what an opportunity is now awaiting him who has the courage to breast the tide?

Victory
for
Farm Bloc

IT is valid. So says the United States Supreme Court in a decision just rendered on the constitutional issue of the grain futures law recently enacted by congress. The proceedings attacking the measure were instituted by the Chicago Board of Trade.

The court held that future manipulations do "work to the detriment of producers, consumers, shippers and legitimate dealers in interstate commerce in grain, and that it is a real abuse."

Further, the court held that manipulations of grain futures "exert a vicious influence and produce abnormal and disturbing temporary fluctuations of prices that are not responsive to actual supply and demand, and discourage not only this justifiable hedging, but disturb the normal flow of actual consignments."

Then again, the court deems that inasmuch as a board of trade conducts a business which is affected with public interest that congress is within its right when it subjects that board to reasonable regulation.

Congress felt that the best interests of all concerned would be promoted if representatives of producers and shippers be given an opportunity to take part in the transactions of these world markets, and also that the practice of giving patronage dividends by cooperatives should not stand in the way of such participation.

The court upheld congress in this position.

Thus it will be seen that in this whole matter the farmers, represented by the farm bloc in congress, have enjoyed a sweeping victory which should go far toward overcoming some of the abuses which have been practiced so long.

A
Bird's-Eye
View

A YOUNG farmer in southern Michigan has been looking at his farming operations somewhat differently since he had an opportunity to view his fields and buildings from an airplane.

For a few minutes he could see through and over the little details that had been daily and hourly bothering him, and see each field and all the buildings in their relation to each other. In just a short time while soaring up near the clouds, he got a strong mental grip upon his business.

We may not have the opportunity of getting a real bird's-eye view from the tonneau of an airplane. We can, however, make a careful analysis of our farming business, and then adopt some broad policy of rotation and soil management and of animal husbandry which will take us away from many of the hazards and bring us some of the advantages of good farming.

Inclinashun

THE folks what's expert on the talkin' subject say when you ain't got nothin' to talk about you kin talk about the weather. Now, I ain't got nothin' to talk about, but I ain't goin' to talk about the weather, 'cause it ain't been worth talkin' about.

This has been a awful funny season, ain't it? It just kinda jumped from winter to summer. It looks like spring ain't goin' to be sprung at all.

You know, these sudden changes in the weather ain't good for the what

you call the constitushun; not the constitushun of U. S. but the constitushun of us. For inst., changin' from wool sox to none at all is gettin' right down to what you call the foot of the trouble.



Just to show you that such changes ain't good, there's been somethin' the matter with me since they occurred. In the investigashun of the matter, I find that the trouble is that the weather has affected what you call my inclinashun.

My inclinashun to work is kinda run down and I find that part of it's 'cause we ain't had suffishunt sunshine for this season of the year. So, when it comes I just want to set and kinda bask in it. Seems like, the past winter just kinda run my stock of sunshine down, and I just gotta set and charge myself with some more 'till I get my normal supply back.

Anyhow, this sun accumulatin' business, is pleasant. You just set there and kinda dream about fishin', the Bermudy Islands, Californy, airships, lilies of the valley, violets, something good to eat, queens, and yourself as a king.

I was just dreamin' about what the lawyers call the last aforesaid subject when Sophie comes along and says, "Hey, Hy! what the deuce you doing? You gotta get busy and get your plowin' done, otherwise it's goin' to get so dry you won't be able to get the plow point in."

So, you see, I woke up and found myself a deuce instead of a king—a deuce of spades, what means that I gotta dig in and get busy.

Ain't it funny what the weather does to a fellow?
HY SYCKLE.

Corn with Less Strain on the Pocket

How to Iron Out Some of the Expensive Wrinkles in the Production of the Corn Crop

By J. R. Duncan

IT costs forty bushels of corn to grow, harvest and put on the market an acre of corn by the ordinary methods in use. The thing, then, the farmer is interested in is how to increase his production above that figure so as to show a reasonable profit or to cut the cost of production. Let's see how this would work.

The first thing is humus. Put humus into the soil by plowing down legumes, if possible, or stable manure, or the old straw stack.

Humus does three things: 1. It increases the water-holding capacity of the soil. 2. The bacterial action is increased. 3. By the increased bacterial and chemical actions all the necessary elements of plant food are converted into available forms which move rapidly and abundantly.

The addition of commercial fertilizer to balance the available plant food elements, will, with plenty of humus present, usually return a profit on the investment. The value of a crop of corn produced where there is an abundance of plant food is enhanced by the production of larger ears, fewer nubbins, better yield, and more mature, plumper kernels, which means better quality and a higher market price. Proper fertilization is of still greater value if one wishes to sell the crop for seed. Acid phosphate or high phosphorus fertilizers at the rate of 200 to 300 pounds per acre are particularly effective.

The preparation of a good firm seed-bed is too important a factor to neglect in any way. Thorough pulverization with disc and spring-tooth, and leveling with the spike-tooth puts a field in first-class shape for the use of the cultipacker to firm the seed-bed.

The seed-bed must be firm and level if the corn is to be planted at a uniform depth of two inches. Also one gains considerable time in planting when the field is well-fitted.

Save expense on cultivating by harrowing with spike-tooth about three days after planting, setting the teeth only straight enough to scratch the surface of the ground in the planter wheel mark. Do not harrow deep enough to cut off corn sprouts or displace the kernels.

Smother the weeds which may be sprouting around the corn plants by

rolling in some dirt the first and second cultivations. No appreciable amount of weed killing is done with the cultivator after the first two cultivations, particularly in close proximity to the corn plants. All subsequent cultivations should be very shallow and with the inner edges of the two inside shovels not closer than eleven inches apart.

Seed Selection.

The condition of the seed corn which has been stored all winter should now be definitely and accurately known. Every ear should be given a thorough examination and all ears which show any visible signs of mold or disease should be thrown out at once. Don't take any chances. It may grow, but we don't want any weak, sickly plants. We want strong, vigorous plants capable of producing good-sized ears.

Planting seed of doubtful germination is a serious handicap. There is no possibility of making a bull's-eye because the aim is too low. Weak plants and a poor stand destroy all chances of getting maximum results from the available supply of plant

food in the soil in a good season. A germination test of individual ears will bring out interesting facts in regard to the ears that look to be absolutely sound and vigorous.

It is folly for a farmer to plant one-third more kernels of corn on an acre simply to make allowance for kernels he feels confident will never germinate or if they do will only produce weak spindling plants incapable of maturing little if any seed.

There are several factors which might cause too thin a stand of corn plants, but seed of approximately one hundred per cent germination is absolutely necessary to secure an even distribution of plants and a full stand.

Poor seed corn, in actual practice, has the effect of causing vacant hills and of producing too many plants in other hills. This reduces the quality and the quantity of the ears produced.

I have attended a number of corn shows this winter and I have found an unreasonably large amount of moldy corn on display. I have no doubt that a high per cent of this corn was intended for planting this spring,

and probably will be planted. The thing the amateur will find is that he cannot tell what per cent an ear would germinate.

That is why it is necessary to plant twenty-five to forty useless kernels, and then only get an irregular stand. Ears having kernels with weak germination are about as undesirable as ears with dead kernels because these weak kernels only produce stunted plants at best.

It requires some study and experience to intelligently read germination tests. Even under exactly the same moisture and temperature conditions the kernels from one ear may germinate quicker than kernels from another ear because of the more rapid penetration of the moisture through the seed coat.

Experience in running individual ear germination tests should aid one in telling whether an ear is likely to germinate strong, doubtful or zero plants. One soon discovers that two ears may look to be almost identical and yet one will germinate one hundred per cent and the other perhaps less than seventy per cent.

Knowing the germination of one's seed corn is too important an item to be overlooked. We can't afford to cultivate vacancies. We can cut the cost of each bushel of corn raised by raising the maximum number of bushels per acre on fertile soil, well tilled and planted with good seed of the best variety for your particular locality.

FARM MORTGAGES.

THE census bureau has compiled for the first time, estimates of the farm mortgage debt of the country. The figures indicate that about one-tenth of the value of all the farm lands and buildings in the country are owed on mortgage debts. The farm mortgage debt of the United States is \$7,857,700,000, while the value of all the farm lands and buildings is \$66,316,002,602. Iowa had far more mortgages on its farm property than any other state. Its total aggregated about one-seventh of the entire amount. Michigan has less than one-half as much mortgaged farm property as Wisconsin and Illinois, but more than Ohio and Indiana.



It Takes Head Work as Well as Hard Work to Grow a Good Crop of Corn.

Root of the Potato Grading Problem

Some Facts Which Growers Should Understand

By H. L. Barnum

DURING the past few months potato growers and warehouse managers have been urged to grade better and get more money from the crop. Hoping to improve the prices thereby, they have accordingly hand-sorted thousands of bushels of potatoes, but the returns have been far from satisfactory. Many careful observers have therefore been forced to the conclusion that the use of a Bogg's sorter and a picking table is only the last act of a series which must be performed before a potato crop can be well prepared for the market.

Putting market quality (good appearance) into a car of potatoes is a responsibility which should not be laid entirely on the shoulders of a warehouse manager. The grower must assume part of the responsibility himself; and the sooner everybody realizes how deep-seated are the causes of our grading problem, the better.

Hollow Hearts.

Hollow centers constitute one of the

greatest faults in the potato crop, from the marketing standpoint, this season. This is a trouble which is but little affected by sorting and grading; for, where it is prevalent, it affects large and small tubers alike. Early planting on properly prepared soil, however, eliminates almost all of this trouble. In sections where planting was done before June 1, even the largest tubers are generally found to be sound.

Ill-shaped and diseased potatoes can, in most cases, be traced to inferior seed. The use of culls and seconds, even from otherwise good stock, and the use of the run-out stuff that is still all too common in many communities, is the cause of the poor appearance presented by many cars sent to market. The time is long past when potatoes of poor general appearance can get by at a good price. Certi-

fied, or high-grade seed, will put quality into a crop quicker than any other practice.

Another cause of poor market quality are the bruises and injuries which are inflicted on potatoes during the course of digging, hauling, and grading. This winter's experience has convinced everyone connected with the marketing of the crop that the use of forks and hooks in digging is the curse of the potato industry in Michigan. Machine diggers, where they can be used, will save their cost by increasing the market quality of potatoes dug with them. The more general use of crates for hauling is an advantage. Probably the worst feature in the whole process of getting potatoes from the field into the warehouse is the shaker type of sorter, operated at high speed, which bruises, breaks and skins the tubers beyond all reason. Such

machinery should either be operated slowly enough to take them out of the class of paring machines or be discarded altogether.

Poor Storage Conditions.

A potato is a living, breathing thing, and whether the tubers are to be used for seed or food, they should be kept under normal living conditions. Two of the first considerations in storage are proper temperature and sufficient ventilation. Potatoes which are permitted to heat or freeze, or which are deprived of a reasonable amount of fresh air, will come out of storage unfit for human food. Houses which do not provide proper living conditions for the stored potatoes may often be made entirely satisfactory for a very small outlay. In this work of remodeling storage houses the local marketing associations have the promise of the free services of a ventilation expert from the Farm Mechanics Department of the Michigan Agricultural College.



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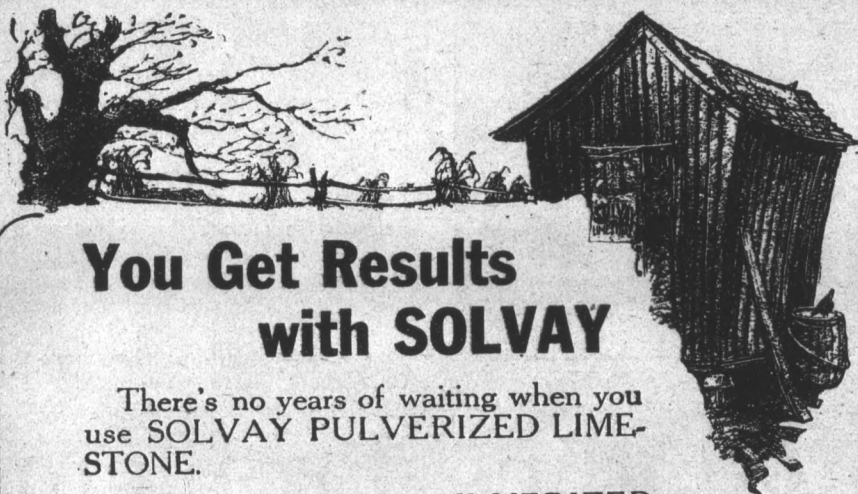
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Washington Letter

By Senator Capper

FOUR hundred and sixty thousand American farmers quit their jobs and left the farm last year—says the department of agriculture—possibly to become carpenters and bricklayers and plasterers, as suggested by Mr. Babson.

The movement away from the farm was strongest in the Pacific states, while the percentage of loss was greater than the average for the entire country in the west, south central and New England states as well as the Pacific states.

A fairly good carpenter, plasterer, or bricklayer may be developed in a year or two, but good farmers have to be born as well as made, and require a longer time to matriculate than any other calling or profession.

A wise country and a wise government will be careful always to maintain a plentiful supply of good farmers. They are very necessary.

Booms and Deflation.

Business is booming in the big cities. The federal reserve board warns against price rocketing. The reserve board remembers the "buyers' strike" and fears another. The reserve board is wise. Business, said to be wise, is singularly dumb at learning from experience. That's why it's either a feast or a famine in this country. An uninterrupted bow of good business at a fair profit is infinitely better than crest waves of boom followed by troughs of depression. High prices bring on buyers' strikes and buyers' strikes bring on depression.

If the reserve board wants to stop the "boom," it can do it by "deflating" the speculator. Sky-high sugar tells the story of speculator booms. Without cheap credit the speculator could

not "margin" his corner and the legitimate working of supply and demand would govern the price of sugar as it should be governed.

The reserve board knows how to "deflate." It learned how by practicing on the farmer two years ago. The farmer's credit was withdrawn. "Progressive interest rates" that progressed quite out of the farmer's reach turned the trick. The farmer hasn't yet recovered from this experience and won't until the equilibrium between what he sells and what he buys is more nearly restored. The dollar the farmer gets when he sells his product buys him sixty-seven cents worth of goods over the counter. The farmer is the biggest single factor in the country's buying power. A price boom in the face of these facts is manifestly artificial and ought to be checked in the interest of everybody.

The Sugar Situation.

The one hundred and ten million Americans who are being trimmed by the sugar gougers have it in their power to protect the family pocketbook. If forty million American housewives will mobilize and cut down on sugar, if they will manifest half the spunk of Molly Pitcher, of Revolutionary fame, there won't be enough left of the sugar graft at the end of thirty days to wad Molly Pitcher's cannon. This fight is strictly up to the women folks. A buyers' strike in sugar is the only way to beat the gamblers, one wholesaler believes. If the people will buy only a minimum of sugar for thirty days, the price will come down with a flop.

Arthur Capper

WASHINGTON, D. C.

State Capital Comment

By Our Lansing Correspondent

THE governor's veto of the gas tax and the legislature's failure to pass it over his veto marked an important turning point in the progress of the session. Everything that happens from now on will be more or less influenced by the bitterness of the battle waged over the gas tax. Just what provision will now be made for financing the state's highway program and paying the interest and principle on the accumulated highway bonds is yet to be determined.

The governor, in his veto message, made an attack on the state highway department and rehearsed the various stock arguments against the gas tax which his spokesmen in the legislature have been repeating ever since this question came up for discussion. His friends declare that the message was a most masterly one, while those not so kindly disposed feel that he did not do himself justice, and, by bringing up many things not directly related to the gas tax, tried to throw up a smoke screen and detract public attention from the real issue.

Byrum Bill Passes House.

While deadlocked with the governor the gasoline tax issue, the house took a decided forward step by passing and sending on to the senate the Byrum state income tax measure.

This tax is not intended as an additional burden but to entirely remove the necessity for a general property tax for state purposes.

The exemptions of \$1,000 for a single person, \$2,000 for a married person, and \$40 for each child or other dependent would insure that the tax would apply only to those who could well afford to pay, while the overbur-

dened general property owner would secure marked relief. The general property tax would thus become a purely local matter and local economy would be fostered because the blame for high property tax could not be shifted to the legislature.

School Bill Fund O. K'D.

After prolonged debate the house passed by a vote of seventy-two to twenty-two vote, Representative Meggison's bill to provide for a change in the method of apportioning the primary school interest fund in order to give greater aid to the poorer school districts and thus equalize the opportunity for securing a primary school education in Michigan.

Opposition to the bill appeared to come chiefly from Grand Rapids members. Under the proposed system this city will receive less state aid and so they registered strenuous opposition. Detroit representatives also voted against this bill.

Deferred Forest Tax.

Sentiment of those who believe that the general property tax is not adapted to a long-time crop, such as forest products, has found expression in a bill sponsored by Representative Thomas D. Meggison, Antrim county.

This bill, which has been favorably considered by the committee of the whole house and has been advanced to third reading, is intended to promote useful forest growth in the state. One of its most important provisions allows land carrying a satisfactory timber stand to be taxed annually on its bare-land value without regard to the value of the timber which is accumulating.

ORCHARD AND GARDEN

IMPORTANT STEPS IN GROWING BIG, JUICY TOMATOES.

THERE are probably more failures in the growing of tomatoes in farm and kitchen gardens than any other vegetable, because growers rush the plants to the open ground before danger of frost has passed. Tomatoes are tender plants, requiring hot weather conditions, and Michigan growers should keep them in hot-bed or cold-frames until after the first of June. If tomato plants are touched by frost, however lightly, they will not produce a perfect crop.

Ordinarily the plants are started by seeding in the hot-bed in March or early April. In three weeks thin them to stand about three inches in the hot-bed and transfer the extra plants to other beds, flats or two-and-one-half-inch pots—one plant to each pot.

At the end of the second or third week following the first transfer, shift them to cold-frames and set the plants six inches apart. Here they develop large roots and strong tops that will stand erect in the garden.

Before the time for the final transfer to the open garden the plants should be hardened off, gradually exposed so that there will be no sudden change for them when they leave the warm, early home.—Mills.

APPLE APHIDS EASILY CONTROLLED.

APHIDS on apple trees are quite easily controlled by the use of a spray containing lime-sulphur and nicotine applied just as the insects are hatching out in the spring.

There are two kinds of aphids commonly found on buds of apple trees in the spring, one known as the rosy aphid and the other as the green apple aphid. The feeding of these insects results in dwarfed, mis-shapen fruit unfit for market and is frequently a serious loss to growers.

Experiments have demonstrated that thorough spraying with a mixture containing two and one-half gallons of lime-sulphur, three-quarters of a pint of nicotine sulphate, and water to make 100 gallons at the time that the tips of the leaves of the fruit buds protrude from one-fourth to one-half inch will control the pests most effectively.

Careful spraying from the ground and under the tree rather than from the top of the spray tank is regarded as an important factor in the control of these pests.

PLANT POP CORN.

IF it were possible for me to speak a personal word to every farmer's wife in the United States, I would make it a strong point to urge every one of them to see that no season's planting was complete without a goodly-sized patch of pop corn.

Too many of the men folks are inclined to look upon pop corn as a "baby's crop." Now, if it were that and nothing more, there would be sufficient proof that it should not be neglected; but there are many more reasons why it should be grown.

While pop corn may be grown successfully as a source of profit, yet that is not the point I wish to emphasize strongest. Its real value as a healthful and palatable food is too often overlooked. Then again, if any one can imagine anything more cheerful on a cold winter night than to gather around the fire, old folks, young

folks, babies and all, and spend an hour or so "a popping corn in the ashes," as the old school reader put it, I say, if anyone can imagine a more cheerful hour, let them speak up, please.

There are so many ways of preparing pop corn that it is impossible to mention all in this article. So I shall only mention a few of the ways, leaving out details. Plain pop corn, pop corn balls, salted pop corn, pop corn crisp and, best of all, pop corn with cream and sugar! It would be difficult to conceive of a more delicious break-



A Cage Put Around a Promising New Apple Variety in New Jersey to Prevent Theft of Buds.

fast food. And yet it is safe to say that at least one-half of those living on farms have never heard of this delightful dish. When we stop to consider that most farmer's families are blessed with plenty of good, rich cream and could, with very little additional effort, grow enough pop corn for their own use, it seems almost cruel that the children (as well as the older folks) should be deprived of this healthful treat.

Pop corn is easily grown. While it does not pay to neglect its cultivation, yet it will thrive on treatment that would mean total failure with other corn. It is surprising how much can be grown on a small patch. Our little boy raised a half bushel in the garden last summer on a plot fifteen feet long and eight feet wide. This plot would have accommodated only eight or ten hills of field corn, whereas there were just thirty-six hills of pop corn. So it does not necessarily require wide planting. We prefer the rice corn, while there are other good varieties. The old theory that pop corn must be a year old before it will pop is foolish. After the corn is ripe and fairly dry, we shell some of the driest ears, spread them in a large pan and allow to dry about a week. It is then ready to pop.

If more pop corn is grown than is needed for home use, there is always ready sale for it in town. By all means plant some pop corn.

PROTEST OFF-COLOR GRADE.

THE apple growers in the fruit belt from Allegan county north are protesting the changes in the Brahma apple grading bill which would permit a Michigan standard under-color grade of apples. They oppose this change, because they believe it will injure the Michigan Standard-A grade and they believe it would also allow the growers in the southern part of the state to get their apples on the market earlier, thereby flooding the market and killing many sales.

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 An unbiased, authoritative discussion of insect pests and plant diseases and how to control them. Admits that Pyrox is not a cure-all, and lets users tell you in their own words how Pyrox saves them time and money. You won't have the latest spraying data until you get this finely illustrated, authoritative hand-book.
Send for it to-day

ALSO known as Colorado potato beetle, or plain "potato bug." Does most of its damage when young. If its first meal is Pyrox, it won't grow up.

Spray with Pyrox and you also repel flea beetles, leafhoppers, and control fungous diseases. At same time, you invigorate the plant so that it continues growing until harvest. This means more tubers, better tubers, lower growing costs per bushel. All this you get at one time-and-labor cost for spraying.

Pyrox is a smooth, firm paste—a chemical blend of a powerful fungicide, and a deadly poison that is stronger than required by U. S. Government standards. Used successfully for 24 years for all truck, small fruits, HOME GARDENS. Mixes easily in water, sprays through finest nozzles. Sticks like paint on foliage. If not at your dealer's, write our nearest office.

We also make Arsenate of Lead, Calcium Arsenate, Bodo, Paradichlorobenzene, and Paris Green.

Bowker Insecticide Co., 49 Chambers St., New York City
 111 West Washington St., Chicago, Ill.

Pyrox

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

the powerful triple-duty spray

4 TIMES Around the World with ONE OILING 100,000 Miles Without Stopping for Oil



An inventor who could develop an automobile, a railroad car or any other conveyance on wheels which would perform such a feat would be considered a wonder. But such is the record of regular accomplishment by the Auto-oiled Aermotor during the past eight years in pumping water.

Did you ever stop to think how many revolutions the wheel of a windmill makes? If the wheel of an Aermotor should roll along the surface of the ground at the same speed that it makes when pumping water it would encircle the world in 90 days, or would go four times around in a year. It would travel on an average 275 miles per day or about 30 miles per hour for 9 hours each day. An automobile which keeps up that pace day after day needs a thorough oiling at least once a week. Isn't it marvelous, then, that a windmill has been made which will go 50 times as long as the best automobile with one oiling?

The Auto-oiled Aermotor after 8 full years of service in every part of the world has proven its ability to run and give the most reliable service with one oiling a year. The double gears, and all moving parts, are entirely enclosed and flooded with oil all the time. It gives more service with less attention than any other piece of machinery on the farm. To get everlasting wind-mill satisfaction buy the Auto-oiled Aermotor, the most efficient windmill that has ever been made.

For full information write **AERMOTOR CO.** Chicago Kansas City Dallas Minneapolis Des Moines Oakland

Please Mention Michigan Farmer When Writing To Advertisers



When do you really "wake up" in the morning?

Do the golden morning hours find you wide-awake and fit, or do they find you sleepy and tired?

Coffee is a common cause of sleepless nights, which bring drowsy days with their usual train of neglected opportunities.

Why not get a new, firm grip on yourself, by leaving off coffee for awhile and drinking Postum, a wholesome, delicious, mealtime beverage, with a fine, full-bodied flavor you will like.

You can enjoy Postum any time, day or night, without interference with nerves or digestion.

Your grocer sells Postum in two forms: Instant Postum (in tins) prepared instantly in the cup by the addition of boiling water. Postum Cereal (in packages) for those who prefer to make the drink while the meal is being prepared; made by boiling fully twenty minutes.

Postum

FOR HEALTH

"There's a Reason"

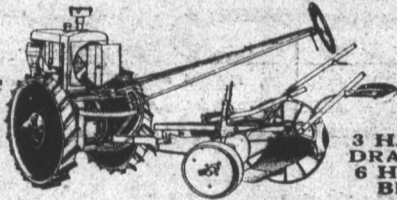
Made by Postum Cereal Company, Inc. Battle Creek, Mich.



Winter Problem solved by the Inner Overcoat Hive. Send for illustrated catalogue 32 pages of bee-keepers supplies. Bees wax wanted. Best white Michigan honey for sale 5 lbs. \$1.25, 10 lbs. \$2.25, 60 lbs. \$10. Goldenrod 5 lbs \$1; delivered anywhere in Michigan. A. G. WOODMAN CO., Dept. M. F., Grand Rapids, Mich.

Better Cultivating at Less Cost WITH THE

ARO TRACTOR



3 H. P. at DRAWBAR
6 H. P. at BELT

THE "ARO" does all kinds of cultivating.

It fits any row—any crop—straddles narrow rows—goes between wider rows. It's as easy to handle as an automobile—all controls in front of operator—and you ride! Easy to steer, turns in a very short radius. Users report that it does the work of a riding cultivator and two horses—at less cost!

The Ideal Small Farm Tractor

Not a toy—not a so-called "garden tractor" but a real power plant for plowing, (pulls a riding sulky with 10 or 12 inch bottom) discing, seeding, spraying, belt work, etc. On large farms it does the work that big tractors can't do. Stands up under long hours of heavy work. It saves time. It does good work. You can depend upon it.

Write for the "camera story" of the ARO'S success, and the secret of its unusual power, sturdiness and dependability.

RAY E. McHUGH, State Distributor

640 E. Michigan Ave., Lansing, Mich.

Mfg'd by ARO Tractor Co., Minneapolis, Minn.

OUR SERVICE DEPARTMENT

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

LANDLORD AND TENANT.

If I take a farm on shares for one year, with the privilege of two more, can the owner of the farm make me leave the place after the first year?—F. W.

If the lease is written and specifies the right of renewal the lessor cannot defeat it; but if it is oral it could be avoided by notice to quit.—Rood.

NOTARY PUBLIC.

Where must one apply for a notary public commission, who is eligible, to what amount is bond required, and who may furnish the bond?—E. F.

The commission is given by the governor of the state on application, accompanied by a satisfactory bond for \$1,000, and sufficient assurance of good character. A letter to the governor will bring blank form of application. The fee for the commission is one dollar, and it is good for four years.—Rood.

TITLE TO STRAW.

Before harvest, the tenant on farm near me proposed that I help harvest his oats, take my part in straw. I agreed. Later helped to haul to barn. No oats in straw, so we agreed on the amount due me and put it in mow by itself. Some time after tenant threw up contract and left. Owner seized remaining crops, sold same and refuses to let me take straw. He claims all rough feed was to be fed on place. He has no stock on the place.—C. C.

The title to the straw depends on the contract of the tenant, and C. C. is bound thereby. It does not appear that by the contract the lessor was to furnish the stock to be fed.—Rood.

EFFECT OF SURVEYS.

The land where we bought was sold in tracts of five and ten acres. About six weeks ago it was surveyed. I started to put in posts in accordance with surveyor's line, and my neighbor said I was wrong. What he claims to be the line does not correspond with that of the surveyor. He goes back in some places as much as twenty-five or thirty feet. Should I get it surveyed over again? It was not the county surveyor who did the work.—E. C.

Unless the survey was made by agreement between the parties to determine the line, no one is bound by it. Probably the survey is right and could be established by action if disputed, but the owner cannot be deprived of his property without his day in court.—Rood.

CALVES SUCK EACH OTHER.

Will you tell me if there is any preparation one can use on calves to keep them from sucking each other? We have four and as soon as they are loose they begin the habit. We have smeared with pine tar and used cayenne pepper, which does not stop them.—D. R. K.

When calves once get the habit of sucking each other, it is almost impossible to break them of this habit by putting anything on the other calf that is objectionable to the taste.

There are mechanical inventions which assist somewhat in breaking up this habit. You can go to the hardware store and get devices to place in the nose of the calf. These contain sharp points which injure the other calves and will prevent them tolerating being sucked by another. But even some calves will beat you at the best sometimes.

The best way is to not allow the calf to get this habit. This is done when the calf is young, by not allowing two calves to run together or by

tying them so they cannot reach each other. Then when they are turned out to pasture little stanchions should be made and you should insist upon putting the calves into these stanchions every time you feed them.

After they have drunk their milk then put a handful of dry ground feed in the pail and let them eat this until the taste of milk is entirely eliminated, keeping them in the stanchion. Then when they are turned loose they will not desire to suck each other.

A BALANCED RATION.

What food elements, and in what proportion, constitute a balanced ration for the various farm animals, viz., the dairy cow, the horse, the sheep, and swine? We have helps that tell us the average analysis of the various farm feeds, but nothing to tell us in what proportions to use these for the best results.—O. L. T.

A balanced ration, as given by Professor Henry, is the feed or combinations of feeds furnishing the several nutrients—crude protein, carbohydrates and fat—in such proportion and

Corn Kinks

I AM anxious to bring together for the benefit of our readers all the little short cuts which our farmers are using in the growing of the corn crop.

You, no doubt, have, or know of some practice which will reduce the cost or make more easy the growing of corn. It does not matter whether the practice relates to soil preparation, planting, cultivating or harvesting.

All you need to do is to describe the practice briefly on a post card or in a letter, and mail on or before Wednesday, May 2, to the Handy Man, Michigan Farmer, Detroit, Michigan.

To each of the five sending the best replies we will mail one of those indispensable Combination Pliers for which every farmer has a thousand uses.

amount as will properly and without excess of any nutrient nourish a given animal for twenty-four hours.

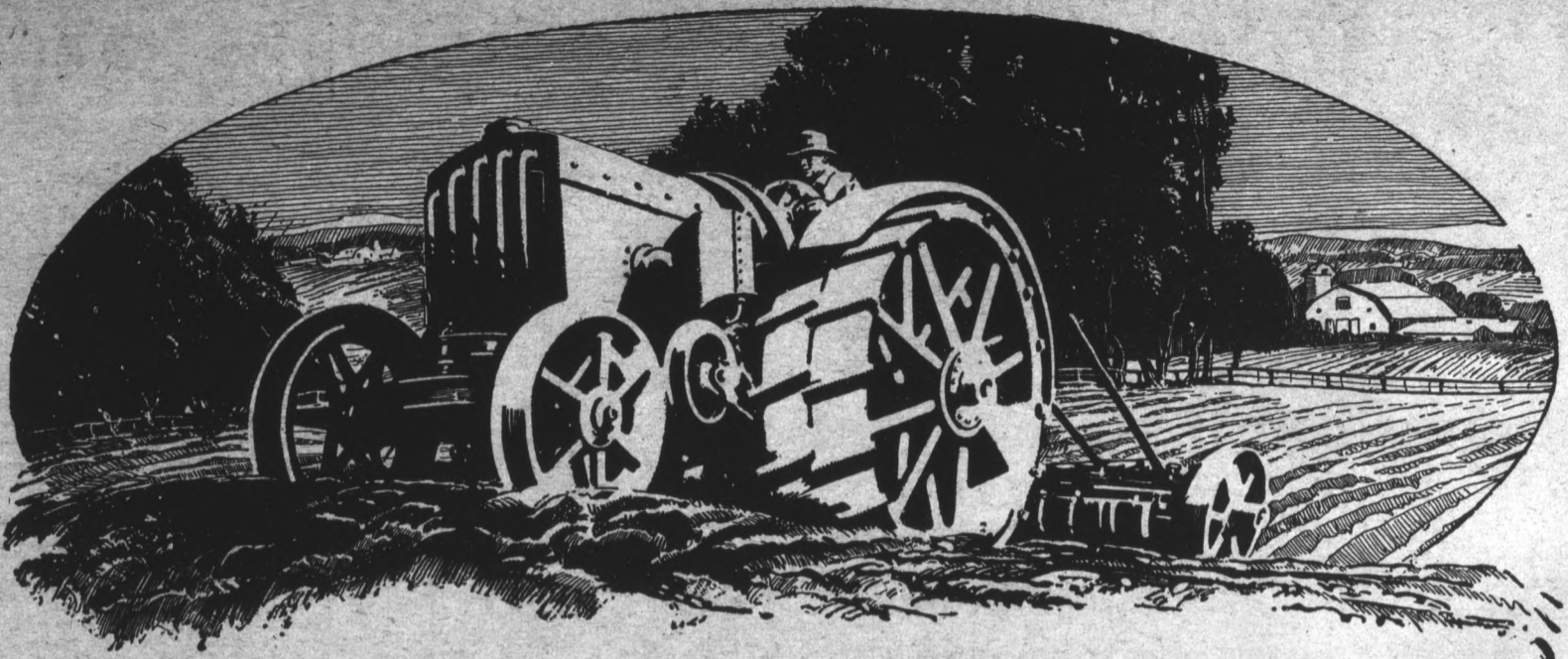
A cow giving milk requires more nutrients and a larger proportion of crude protein than one not giving milk. The same is true of a horse at work or at rest.

So the amount and proportion of ingredients vary with the condition under which the animal is kept. A dairy cow giving a fair amount of milk, (twenty-five pounds) requires 2.5 pounds of crude protein, thirteen pounds of carbohydrates and 0.5 pounds of fat per 1,000 pounds, live weight. A horse doing heavy work requires about the same ration.

To make a balanced ration, we supply the foods that will furnish this amount and the proper proportion of these ingredients.

It is not necessary or practical to attempt to furnish an exact balanced ration, but if we understand the principle and furnish foods accordingly we will get more economical results.

To be called "dirt farmer" is not complimentary for dirt is matter out of place and therefore useless. "Soil farmer" might be better.



Polarine Lubricates Perfectly 137 Makes of Tractors

Tractor Chart of Recommendations

Trade Name	Motor Oil	Trade Name	Motor Oil
Adaptable	H.	Linn.	S. H.
Allis-Chalmers, 6-12	H.	Little Giant, A & B	S. H.
Allis-Chalmers, 15-25	S. H.	Magnet, 14-28	S. H.
Allis-Chalmers, 18-30 and 20-35	S. H.	Mark VI	S. H.
All Work	S. H.	McCormick-Deering, 15-30	H.
Andrews-Kinkade	E. H.	Minneapolis, 12-25 and 17-30	S. H.
Armington	S. H.	Minneapolis, 22-44 and 35-70	E. H.
Aultman-Taylor, 15-30	S. H.	Mogul	S. H.
Aultman-Taylor, 22-45 and 30-60	S. H.	Moline Universal	S. H.
Automotive	S. H.	Monarch	S. H.
Avery, Model C	H.	Montana	E. H.
Avery, 8-10, 12-20, 14-28, 18-35, 25-50, 40-65, 20-35	E. H.	Nilson Junior and Senior	S. H.
Avery Track Runner	S. H.	Oil Gas, 20-42 and 25-50	E. H.
Bates Steel Mule, All Models	S. H.	Peoria	E. H.
Best Tracklayer, All Models	E. H.	Pioneer, 18-36 and 30-60	E. H.
Big Farmer	E. H.	Port Huron	S. H.
Big Four E-B	E. H.	Quadpull	S. H.
Buckeye Trundar	S. H.	Reed	S. H.
Burnoil	E. H.	Rex	S. H.
Capitol, All Models	E. H.	Rogers	E. H.
Case, 10-18, 10-20, 12-20, 15-27, 9-18	H.	Rumley, Oil Pull, 12-20, 16-30 and 20-40	E. H.
Case, 22-40	S. H.	Rumley, Oil Pull, 30-60	E. H.
Case, 12-25, 30-60, 40-72	E. H.	Russell "Junior", 12-24	S. H.
Case, 20-40	E. H.	Russell Boss	S. H.
Cletrac, All Models	S. H.	Russell "Giant", 30-60	E. H.
Coleman	E. H.	Sampson, Model M	H.
Dart Blue "J"	S. H.	Savage A	E. H.
Dill Harvesting	H.	Shawnee, 6-12 and 9-18	H.
Eagle	E. H.	Shelby, All Models	S. H.
E-B, All Models	S. H.	Square Turn	E. H.
Ellwood	S. H.	Stinson	S. H.
Farm Horse	E. H.	Titan	S. H.
Farquhar, 15-25	S. H.	Topp-Stewart	S. H.
Farquhar, 18-35 and 25-50	S. H.	Townsend	E. H.
Fitch Four Drive	E. H.	Traylor	H.
Flour City Junior	H.	Trundar	S. H.
Flour City, 20-35	S. H.	Twin Ports	E. H.
Flour City, 30-50, 40-70	E. H.	Twin City, 12-20 and 20-35	S. H.
Fordson	H.	Twin City, 40-65 and 60-90	E. H.
Fox	E. H.	Uncle Sam All Models	S. H.
Frick, All Models	S. H.	Wallis	S. H.
Good Field	H.	Waterloo Boy	S. H.
G-O	S. H.	Wellington, 12-22 and 16-30	S. H.
Grain Belt	S. H.	Wetmore	S. H.
Gray	S. H.	Wheat	S. H.
Great Western	S. H.	Western	E. H.
Hadfield-Penfield	S. H.	Wisconsin	E. H.
Hart-Parr, All Models	E. H.	Yuba Ball Tread	S. H.
Heider	S. H.		
Holt Caterpillar, All Models	E. H.		
Huber, All Models	S. H.		
Indiana	H.		
International, 8-16	H.		
International, 16-30	S. H.		
Klumb	E. H.		
Lauson, All Models	S. H.		
Leader	E. H.		
Leonard Four Wheel Drive	S. H.		
Liberty	E. H.		
Lincoln	S. H.		

KEY

- L.—Polarine Light
- M.—Polarine Medium
- H.—Polarine Heavy
- S. H.—Polarine Special Heavy
- E. H.—Polarine Extra Heavy

N. B. For recommendations of grades of Polarine to use in automobiles and trucks consult chart at any Standard Oil Co. (Indiana) station.

Polarine lubricates perfectly—137 different makes of tractors. No matter how extreme the temperature—the grade of Polarine indicated in the Chart will remain of the right viscosity. It will spread rapidly. It will form a perfect film between the moving frictional surfaces. It will insure long life to the bearings; complete protection to piston and cylinder.

Changing to Polarine has saved many a farmer hundreds of dollars a year in repair bills. Yet Polarine cost little, if any, more than the lubricant you are using now.

Use Polarine

THE PERFECT MOTOR OIL

Made in Five Grades

It outstrips any lubricant on the market in maintaining its body through any extreme of temperature. Its elasticity and adhesiveness cause a perfect seal and complete lubrication at all motor speeds and temperatures.

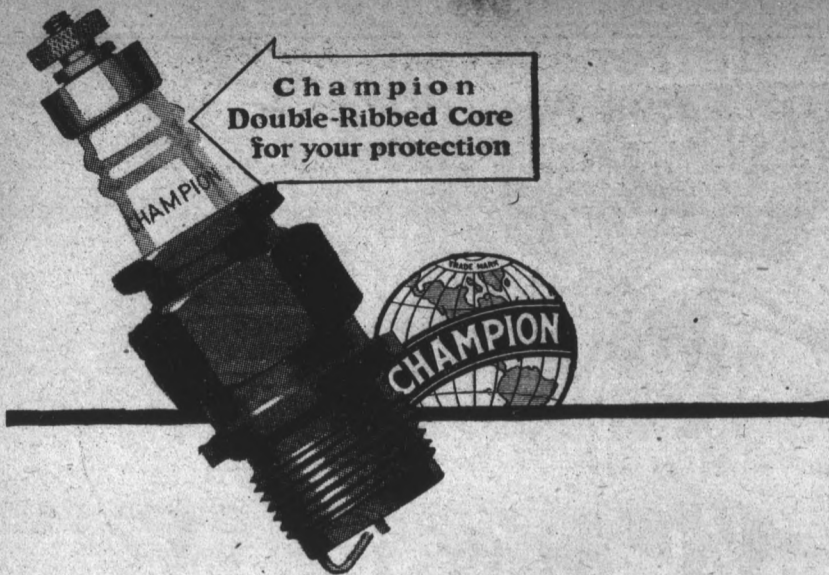
Don't fool yourself into fancied security, by thinking, "Oh, the oil I'm using works all right—why bother to change? It's just as good!" There is no "just as good," or even "second best" lubrication. There is one right lubricant for your tractor. It is specified in the Chart. When you do not use this lubricant, you fail to get the maximum of economy, efficiency and saving of wear on your engine. Change your motor oil very frequently—it is the essence of economy.

Remember the resources—the experience—the scientific experts of the Standard Oil Company (Indiana) are behind every gallon of Polarine sold. This means maintained quality—at all seasons, in all temperatures—and everywhere throughout 10 middle Western states.



Standard Oil Company

910 So. Michigan Ave. (Indiana) Chicago, Illinois



**Champion
Double-Ribbed Core
for your protection**

A Champion in Every Cylinder Means Better Performance



Champion X is the recognized standard spark plug for Ford cars and trucks and Ford tractors. Recognized by dealers and owners for 10 years as the most economical and efficient spark plug. Sold by dealers everywhere.

You will notice a vast difference in engine performance the moment you put in an entire set of new Champion spark plugs. Power and pick-up improve. All sluggish feeling is gone. The engine has new life.

And you will more than save the cost of the Champion spark plugs in greater oil and gas economy to say nothing of protecting your engine against costly repairs due to faulty ignition.

Champion is a better spark plug. Better because of its wonderful new core that will stand stress more severe than it will ever encounter in the engine.

You will know this new Champion by the Double-Ribbed core. Put a full set in your car, tractor, truck or stationary engine. That is real economy as thousands have found out. Champions are sold by dealers everywhere.

Champion Spark Plug Company
Toledo, Ohio

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

CHAMPION

Dependable for Every Engine

\$24.95 *American* **CREAM SEPARATOR**
Upward

On trial. Easy running, easily cleaned. Skims warm or cold milk. Different from picture which shows larger capacity machines. Get our plan of easy **MONTHLY PAYMENTS** and handsome free catalog. Whether dairy is large or small, write today.

AMERICAN SEPARATOR CO.
Sainbridge, N. Y.
Box 7051

GALLOWAY'S BIGGEST BARGAIN

Our cream separator, a tried, tested, high quality separator. Famous for close skimming, modern improvements, economical operation, at a price that makes bargain that your money can buy.

CREAM CHECK PAYMENT PLAN
Makes it easy to own a Galloway. Our terms suit your pocketbook, our special offer permits you to try it before you buy it. Write today.

William Galloway Co., Dept. 133 Waterloo, Iowa

FREE To introduce our Pedigreed everbearing Strawberries we will send 25 fine plants free. Mason Nursery Company, Piedmont, Missouri

Two Litters a Year with a NATCO Hog House

Fire-safe, weather-proof NATCO Hollow-Tile Hog Houses never need painting or repairs and are ideal for early farrowing and the care of young pigs. The glazed tile is easy to clean and keep clean. They are warm in cold weather—cool in hot weather—the walls are non-conductors of heat, cold and moisture. The large units of tile are easily, quickly and economically handled with less labor and mortar.

Write for the "Natio on the Farm" book today. Treats on modern farm-buildings of every type.

NATCO DOUBLE SHELL TILE

NATIONAL FIRE-PROOFING COMPANY
1312 FULTON BUILDING :: PITTSBURGH, PA.

MYERS GARAGE DOOR HANGERS

WHERE space is valuable use Myers Garage Door Hangers. They slide the doors on inside, around curved corner—no space wasted. Satisfactory for doors on any building. Most practical, space-saving device made. The Myers trade-mark guarantees quality on complete line of Pumps, Water Systems, Door Hangers and Hay Tools. See your dealer or write us.

THE F. E. MYERS & BRO. CO.
346 Church Street, Ashland, Ohio

Marvelous new one man Shearing Machine

Any farm hand can now shear sheep in half the time with a Stewart One Man Power Shearing Machine. Same price as a hand machine. Belts to any engine. Does it better and gets 15% more wool every shearing. Gets longer staple wool bringing better prices. No ridges. Sheep like it.

Complete with 3 extra sets cutting blades, \$16.00 at your dealer's (Denver West, \$19.00) or send \$2, pay balance on arrival. World's standard. Satisfaction guaranteed or money back. There is a Stewart Shearing Machine, hand or power, to fit any need. Write for full particulars.

Chicago Flexible Shaft Company
6576 Roosevelt Road Chicago, U.S.A.

World's largest makers of clipping and shearing machines. A full line of electric clipping machines, any voltage.

Cloverland News

BOYS AND GIRLS DOING MUCH WORK.

A RECENT report on boys' and girls' club work in the Upper Peninsula, given out by Miss Ruth Cresswell, assistant state leader of home demonstration agents, shows that twelve Upper Peninsula counties have carried on this work.

There are in these twelve counties 234 clubs, with 2,963 enrolled members, and 2,464 members reporting on their work. The estimated value of the output is \$50,000.

SOME OWLS AND HAWKS ARE BENEFICIAL.

WARDENS are instructed to exercise great care in the destruction of rodents and other noxious small animals. Of the owls all are to be spared except the great horned and snowy owls, while only the larger swift-flying hawks are to be killed, the slow-flying types being more beneficial than harmful. During January fifty-five large predatory animals were destroyed, while the number for February was sixty-three. On this list are timber wolves, coyotes, bob-cats, weasels and foxes.

TIMBER PERMITS ABUSED.

DEPUTIES of the State Department of Conservation were in conference at Marquette recently in preparation for the summer work ahead of them. Mr. David R. Jones, chief deputy, reported that a recent tour of state lands had indicated that the permits to cut dead and down timber had been abused and that fine, green timber had been removed. Much of the state forest lands had been denuded of its best timber in this way, he stated. In consequence of this condition, the issuance of such permits had been suspended. Practice of exchanging state lands having frontage on lakes and streams for interior lands had also been suspended.

Opinions and Comments

WHY PAY SUCH OFFICIALS?

WHY is it that the government has to pay officials who dabble into people's affairs, like the recent report on the conditions of labor in the sugar beet fields in Michigan?

Living in one of the big sugar beet growing counties of the state, I know that practically all which has been said in this report is bosh.

The calloused knees, mutilated hands, and lack of schooling, stooped and bent figures, are exaggerated beyond all reason.

Parents here are human as elsewhere. They make errors of judgment and do many things they should not. But they also love their boys and girls just as folks do in Washington and every other place.

Whoever made the report would, perhaps, be serving the race to a far greater advantage if he, too, could get a little callous upon his knees.—W. B. Gratiot County.

CHILDREN IN BEET FIELDS.

MANY of the families who work in the beet fields would, if not thus employed, be in industrial centers where the children would have only the crowded streets in which to play, and learn vicious habits. Here they have the free air, good food and clean sunshine of the open country.—R. S., Saginaw County.

I Want to talk to YOU about YOUR CHORES



I can tell you how to lighten your chores this Spring and summer. No cash required. You can put an Edwards Engine into service right away on your pump jack, power washer, cream separator, churn, grind stone, lighting plant, etc., also on other heavier summer jobs such as concrete mixer, hay press, grain elevator, etc. Then you can use this same engine for your Fall and winter work. Relieve yourself of the annoyance and drudgery of many chores right now and let me tell you about our **FREE TRIAL AND EASY PAYMENT PLAN.**

No Other Engine Like It

It is six engines in one. It is a 1 1/4 H. P. when you need only 1/4 H. P. It is a dandy strong 6 H. P. for the 8 1/2 feed grinder, wood saw, fodder cutter, small ensilage cutter, etc. You can change power instantly as needed. Very efficient at all powers. Easy starting—no cranking. All moving parts enclosed.

You will get a low factory price on your Edwards Engine and you will get **SPECIAL COMBINATION BARGAIN PRICES** on machinery which is operated by Edwards engines. This is part of our service to Edwards users. Let me tell you about this remarkable engine and my service and payment plans. A. Y. Edwards.

Mail This Coupon Today

THE EDWARDS MOTOR CO.
919 Main St. Springfield, Ohio

Please send, without obligation, complete information about the Edwards Engine, your free trial offer, and easy payment plan.

NAME.....

ADDRESS.....

KEEP BEES

Complete Beginner's Outfits with or without bees. Full line of Beehives, Sections, Comb Foundation, Smokers, etc. General Agents in Michigan for the A. I. Root Co. Send for 1923 catalog. Beeswax Wanted.

M. H. HUNT & SON,

Box 525, Lansing, Mich.

10.00 **One Man Pulls 'Em Easy**

Get New Reduced Prices on Hercules, the fastest, easiest-operating "One-Man" Hand Power Stump Puller made. Simple, double, triple, quadruple power—4 machines in one. Moves like a wheelbarrow. \$10 down. Easy payments.

Send for Catalog No. 549
HERCULES MFG. CO.
CENTERVILLE, IOWA

Save Your Thresh Bill

Have the man who owns a Red River Special do your threshing this year.

He will save enough more of your grain and time to pay your thresh bill. The

Red River Special

with its "Man Behind the Gun" and the Beating Shakers separates by force.

It Beats the Grain Out of the straw and chaff like a man would with a pitchfork.

Buy the Junior to run with your little tractor.

Write for our free catalog telling how you can save your Thresh Bill

Nichols & Shepard Co.
(In Continuous Business Since 1848)

Builders exclusively of Red River Special Threshers, Wind Stackers, Feeders, Steam and Oil-Gas Traction Engines

Battle Creek, Michigan



GOING AFTER RATS.

IN Washtenaw county a rat campaign is being conducted under the direction of Mr. F. M. Place. Thus far Manchester and Bridgewater townships have been covered. Approximately 215 farmers have been called on, and 200 of them reported rats on their premises. The summary showed that the amount of damage done grain and poultry on these farms was \$8,900, besides a property damage of about \$4,000. The average loss to a farm was \$64.75.

In this campaign the recommendations of the United States Department of Agriculture are being followed. This involves the use of barium carbonate, which can be purchased at a

sider, in addition to this expense, the set-up for your magneto, allowing just the proper clearance between magnets and coils, and also a regulating means of controlling the storage battery amperage supply, it becomes an expensive and unsatisfactory proposition. My suggestion would be to purchase a standard automobile generator, one that can be conveniently mounted for belting to a gas engine. By the current regulator, as found in the automobile type of generator, it will be possible to charge at a low amperage rate, a consideration which is recommended for radio batteries. The "cut-out" would prevent the battery from discharging back into the generator, should the gas engine stop.

It seems that winter likes this country so well that it hates to leave. Our present attitude toward winter is, however, rather cold.



Mr. Ernest Petifor is a Fisherman as well as Champion Potato Grower. nominal cost. Mr. Place intends to cover the entire county during the spring months and hopes to do much in ridding the county of this pest.

BEAT LOCAL BUYERS' PRICES.

AUSTIN, in Osceola county, is the heaviest potato shipping point on the Pennsylvania Railroad in Michigan. The principal buyers in the state are all represented there and competition is very strong.

The farmers around Tustin who believe in cooperative marketing have built up a strong association in the face of this competition under the able management of Mr. P. E. Lee. During the month of March, Mr. Lee took in and shipped eleven cars of potatoes through the Michigan Potato Growers' Exchange. For all of these potatoes he advanced the same amount that the dealers were paying in competition with him. At the end of the month when the returns on the eleven cars were all in, Mr. Lee divided the surplus returns among the farmers who shipped the cars. The surplus amounted to \$1,016.

CHARGING RADIO BATTERY.

Would it be possible to charge a radio storage battery from the magneto of a Ford car?—C. L.

Yes, it would be possible, but it would involve a much greater expense than you would care to put into it. Direct current, alone, is suitable for charging storage batteries and since the Ford magneto generates alternating current, it would be necessary to provide some means of lowering the voltage and then rectify the alternating into direct current. When you con-

A Better Cutter for Less Money

YOUR dollars buy more when invested in the 1923 Papec. It has positive-action Self-feed that saves a man at the feeding table. Also other important improvements. Retains the simple, sturdy Papec construction that means long life. Tremendous production in a specially-equipped factory enables us to offer



The 1923 Papec Ensilage Cutter at a New Low Price

You can depend on the Papec for long, hard service. Ames Bros. of Weaver, Minn., write: "We are still using our N-13 Papec after nine years of service and it is going strong." Hook up a Papec to your Fordson or other light tractor. Even a farm gas engine 3 h. p. and up will run our smaller sizes.



Catalog and Farm Account Book FREE

Our new Catalog pictures and explains the improved 1923 Papec. Write for it. If you will also tell us the size of silo you own or intend to buy, and the name and address of your dealer, we will include with catalog our 60-page Farmer's Record Book free. A few entries weekly will show you the profit or loss in any branch of your farming business. Send data for both books today.

PAPEC MACHINE COMPANY
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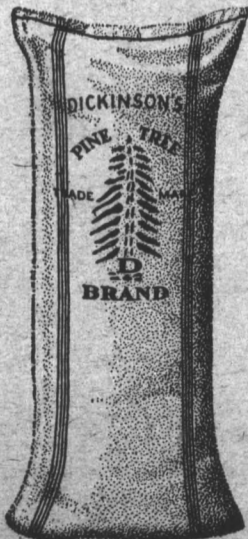


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Our Weekly Sermon
By N. A. McCune

Famous Because Faithful

PEOPLE often write asking where they can buy some book that has been mentioned in the weekly sermon. If one lives near a town where there is a book store, any book named may be gotten there. The name of the publisher is always given, as well as the author, which enables any book dealer to quickly learn the price of the book. If no book store is within reach, write to the Book Concern, 38 East Elizabeth Street, Detroit, Mich., or to the Westminster Press, 125 N. Wabash Avenue, Chicago, Illinois. It might be worth while to cut these addresses out, for future use. Only the



best books known to the writer are referred to, and they are all recent books, most of them having been published less than a year ago.

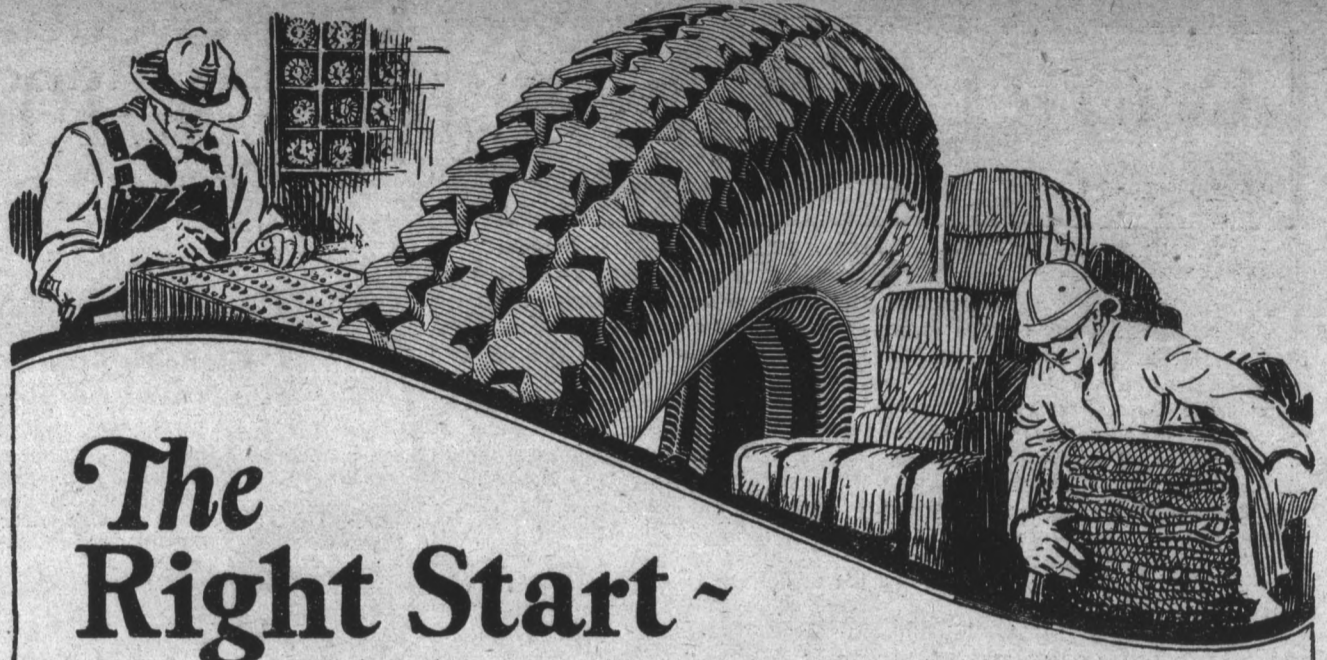
Something over a century ago, Benjamin Franklin was the ambassador of the American colonial government in Paris. Atheism and various forms of free thinking were in the air. To be a believer was not considered good form, and to read the Bible was a subject of humor. Franklin belonged to a literary club which met each week. It came his turn to provide the program. He engaged an actress to take the Book of Ruth, commit it to memory, and recite it at the club. The members were delighted. They had never heard this exquisite love story before. It was so natural, so chaste, so charming. Where had Mr. Franklin found it? Then the wisest of Americans informed them that this had come from the despised book called the Bible, and what was more, there was more of such literature to be found there.

IT is necessary for the literary critic to reveal to us, sometimes, our own treasures. And the literary man says that this is a rare bit of writing. "It is one of those quiet corners of history which are the green spots of all time, and which appear to become greener and greener as they recede into the distance." Following after Judges, (in the ancient editions of the Old Testament, a part of Judges), Ruth is in direct contrast to the wild and bloody stories of that book. Coming out of Judges into Ruth is like leaving the winds and torrents of a mountain storm behind, and entering a peaceful valley, radiant with autumn sunshine.

The sequel to the interesting experience of Ruth was far more happy than that of the average woman in similar circumstances. They work in factories, they sew by the hour in ill-ventilated shops, they clerk, work in laundries, all to keep a respectable place in the world, and to do whatever can be done for their children. Is the religion founded by the Descendant of Ruth going to end such conditions in time? That was what he taught. "The kingdom of heaven is at hand," was his emphatic message. We who believe in Him believe that a day is coming when poverty will be swept away.

SUNDAY SCHOOL LESSON FOR
APRIL 29.

SUBJECT:—Ruth, the Faithful Daughter.
LESSON:—The Book of Ruth.
GOLDEN TEXT:—Thy people shall be my people, and thy God my God. Ruth 1:16.



The Right Start ~

Tire building is like farming—the beginning is vitally important. A good "crop" of miles follows *only* when the tire has had a *good start!*

Firestone experts make careful choice of rubber at the source of supply. It is refined, dried and shipped without waste. This not only saves money for Firestone users but insures quality, from the beginning.

Firestone follows up this right start with the same care throughout every operation in building the Firestone Gum-Dipped Cord.

This big, sturdy tire is quality from bead to bead. The carcass

of gum-dipped cord plies is strong and resilient—absorbing the bumps of the road, protecting the car from vibration and carrying you smoothly and comfortably.

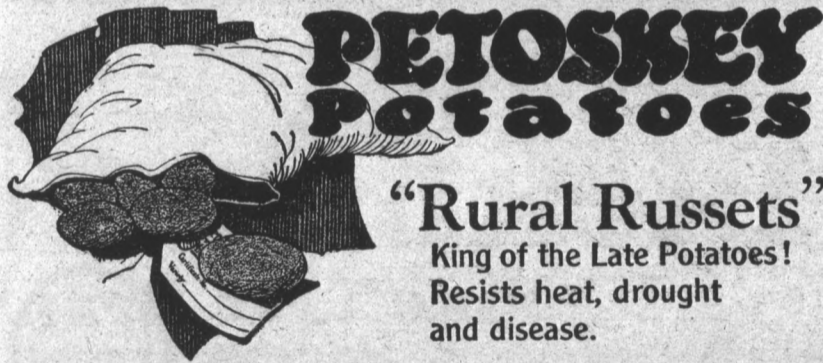
The angles and hollows of the tread grip and hold the road without loss of power. Extra tough and thick, this non-skid tread gives long wear under the hardest driving.

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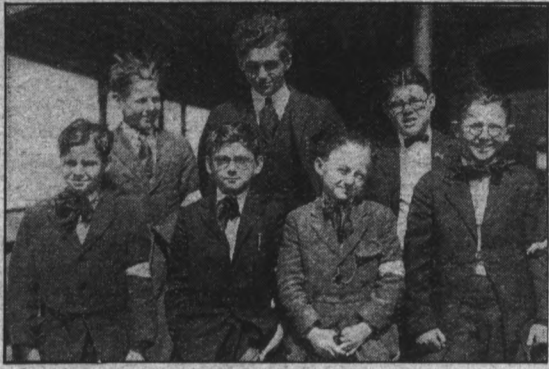
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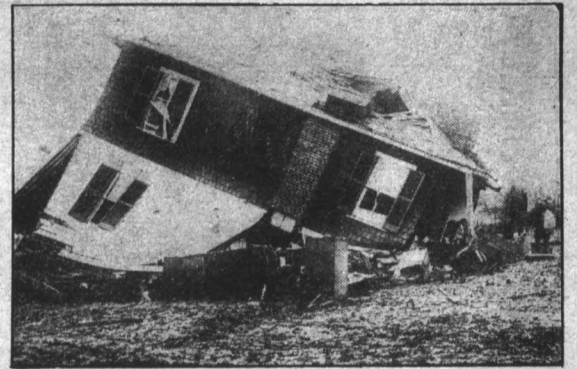
WORLD EVENTS IN PICTURES



"Don't forget your fellow Americans," is the message these Kentucky mountain boys bring from their companions back home.



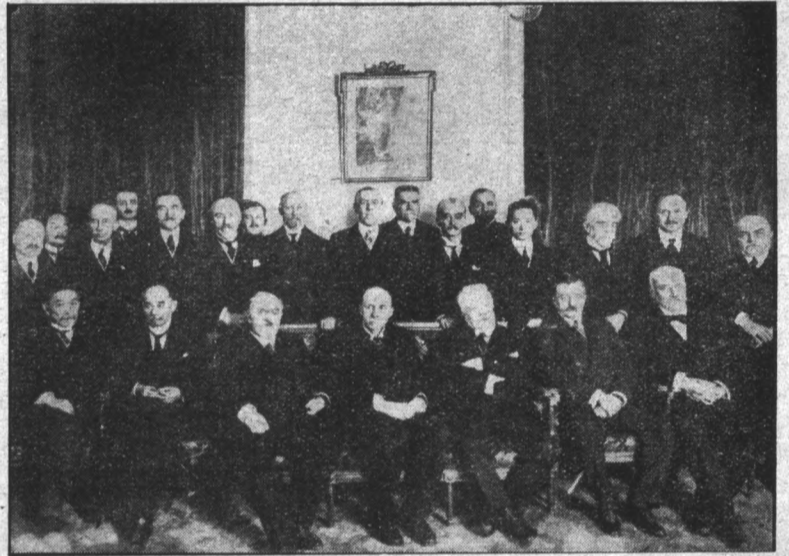
Warren C. VanSlyke, New York, discovered a most primitive race of natives in Asia.



One of the scores of houses wrecked by the cyclone which swept through Maryland, narrowly missing the national capital.



Thousands lined the streets of Paris, mourning, as the funeral cortege of Sarah Bernhardt, the great French actress, passed the Ministry of the Marine.



This group of International Commission of League of Nations, taken four years ago, is again of interest, with Lord Robert Cecil touring the United States to plead for the League.



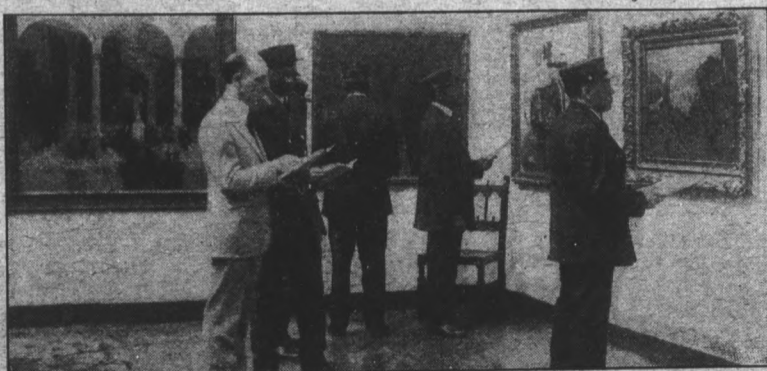
Babe Ruth, playing with the New York Yankees, started the season right with a home-run.



Queen Mary of England, with George Henry Hubert Lascelles, her first grandchild, and the rest of the Royal Family of England, after the christening.



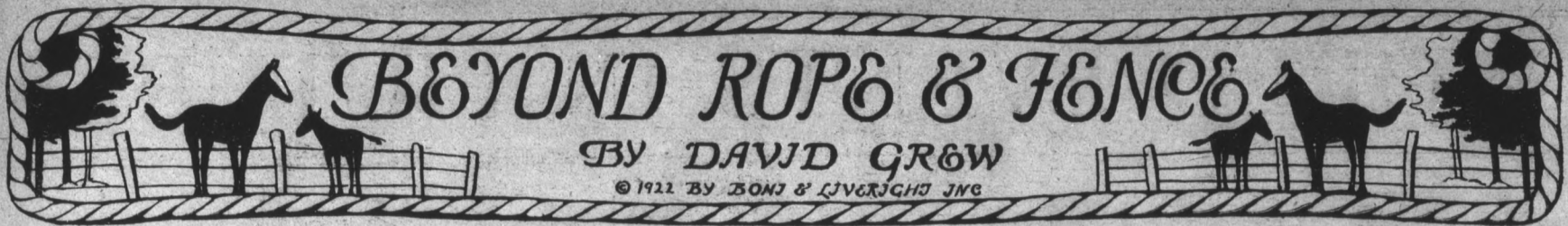
Five men were killed and several injured when this tower collapsed in Hartford, Conn.



The Grand Central Terminal in New York has installed an art gallery and the ports are being instructed in the fine points of paintings so they may answer any sort of questions on art.



Sergeant Murphy, 15-year-old horse, owned by Stephen Sanford, of Amsterdam, N. Y., is first American-owned horse to win greatest jumping classic in English racing history in 83 years.



IN spite of her feelings toward the newcomers, there was something about the white mare that made Queen interested in her. She kept raising her head and looking toward her and one time as she did so, she saw White-black approaching her. When Queen saw them sniffing noses and touching each other eagerly, she trotted over to them. This time instead of limping away at her approach, the white mare waited for her. She seemed glad to touch noses with Queen; but Queen felt uncomfortable. The old kindly spirit that had made the white mare so lovable had given way to a disagreeable impatience and suspicion; and her presence set two emotions struggling with each other in Queen's heart. The subtle odor that made Queen think of some of those distant, weary, winter nights when she lay close against her old foster mother, drew her emotionally to the old mare; while the odor of man and barn repelled her. Over these emotions like a black cloud in the sky, hovered a new-born fear as if she had discerned in the poor mare's condition the warning: "Beware of man for thus he breaks the spirit and the body."

At dusk Queen led the herd in a race over the plains. The poor white mare who now clung to Queen and to White-black tried to follow; but she did not go very far before in her eagerness she tripped and fell. Queen and White-black went back to her and grazed about her. They began to feel that there was something terrible going to happen to her and they watched her curiously.

That night all three of them lay near each other. White-black and Queen were fast asleep in the latter part of the cold night, when they were awakened by a cry from the white mare. Queen jumped up in time to get out of the black old jade's way. The night was cold and he was very thin-blooded. Unable to keep warm he had gone in search of a warmer place and in his clumsy way had stepped upon the white mare's swollen leg. White-black nipped him on the back and with a cry of protest he lumbered away into the darkness. When Queen went back to sleep she was very much disturbed by the white mare's groaning. Several times she woke up and whinnied to her, but the groaning continued at intervals all through the night.

NEXT day Queen noticed that blood was running from her swollen leg, and by nightfall the white mare was nowhere to be seen. Queen looked for her for a while and she saw that White-black, too, was anxious about

her, but they did not find her that day nor the next, though they searched for her constantly as they went about their grazing.

The dull days of early winter came back, grey and silent and ominous. Geese flew over them daily on their way to the south and their honking filled Queen with an ineffable sadness. Suddenly one day as she was grazing by herself she came upon the body of

lows, they began once more moving northward in earnest. Forces they could not understand impelled them. Thus they abandoned forever the scenes of their youth.

The winter passed like a night of pleasure. Protected on the north by a strip of woodland many miles long, Queen and her companions slept the long nights away. The snow, deep in many places, was not very deep near

discovered in themselves preferences for members of the opposite sex, they began to see traits and characteristics in their choice which thrilled them.

There were, of course, petty quarrels now and then, since love will not come unaccompanied by strife, and nature is not always provident, or when she is provident, so often disorderly. There were some disappointments and the weak, helpless here as the weak are helpless everywhere, often had to give way to the strong; but the tragedy that follows love among ferocious and greedy animals never marred their happier relations; and even the weaker ones found love required. Life on the rim of love was so rich; nature beyond love was so lavish, hurts healed before the wounds reached the flesh.

But to Queen and White-black life was a game in which even tiredness had its delight. Strong and healthy and beautiful, admired by the rest and followed in their every whim, they played through the uninterrupted carnival of laughing spring and smiling, drowsy summer. When winter came again, they met it without fear, willing to wade through deep snows, accepting the violent lashes of wind and blizzard, warming their hearts in the expectant joy of another spring and another summer, looking upon life, in their innocence, as an endlessly interesting cycle in which winter was the greatest discomfort and spring its eternal retribution.

THEN came an early spring. Geese returned from the south. The sadness in their honking had given way to the exaltation of rebirth. The snows melted almost in a day. Hundreds of wild ducks populated the many sloughs in the hollows, and filled the delightful evenings with the soft calling of their love-making. In the still nights or as she lay through the rest periods which she now so strangely needed, Queen kept her ears pricked high to catch the last faint sound of every love call and the air now almost always vibrated with some one form or another of these calls.

White-black, still a playful colt, thrilled her with his presence or the touch of his lovely nose; but something sweet and remote was mysteriously laying hold upon the love in her heart. She liked to half close her eyes and doze, floating as she dozed, on the waves of this new emotion. It seemed a joyous feeling all her own and unlike any joy she had ever experienced before. It was a joy she felt within, a joy that expressed itself best in dreaming rather than in the activ-

THE OLD PINE STUMP

By Al. Rice

It's only a stump, for the tree is gone;
And always a stump will be;
For the curse of greed is living on
The life of the waving tree.

It stood in the path of the golden age
Where vandals have swung the axe,
Who have built themselves a gilded cage,
And Nature has paid the tax.

'Tis only a corpse of a hero, slain,
That once was a throb with life,
That has given it's life to greed for gain—
Its blood to the despot's knife.

It's charred by the fires of the passing years
And doomed to a slow decay;
Like a ban-shee ghost it stands and leers—
A grief in the farmer's way.

No feel of the spring in the roots that bore
The life to the waiting limb,
And the beauty that it grandly wore
Is turned to a visage grim.

It's only a stump for the hand of greed
Has gathered a harvest here,
Nor has left a sprout from golden seed
For the landscape, grey and drear.

the white mare. She touched the cold, hard nose with her own and sprang away frightened. She did not try to sniff again. Now she knew that this was death and hurried away.

White-black was grazing almost a quarter of a mile away. Queen trotted over to him and whinnied repeatedly. He answered her, but he did not know what ailed her. She walked away a short distance and called him. First he replied while grazing, then at the second call, he raised his head and walked toward her. But he was no sooner pulling away at some grass there, when he discovered that she was some distance away again and calling as hard as ever. For some reason known only to her she was leading him away to the north again and though he went reluctantly at first, with the rest of the herd following him, they were soon well on their way. A few miles from the lake, they stopped, however, for fear that they might not come upon water. There were in this group no more than a dozen of them, all colts that had been brought up together, and they were glad to be by themselves, though as they moved on, the rest of the horses, miles behind, moved after them. When a snowstorm came and filled all the hol-

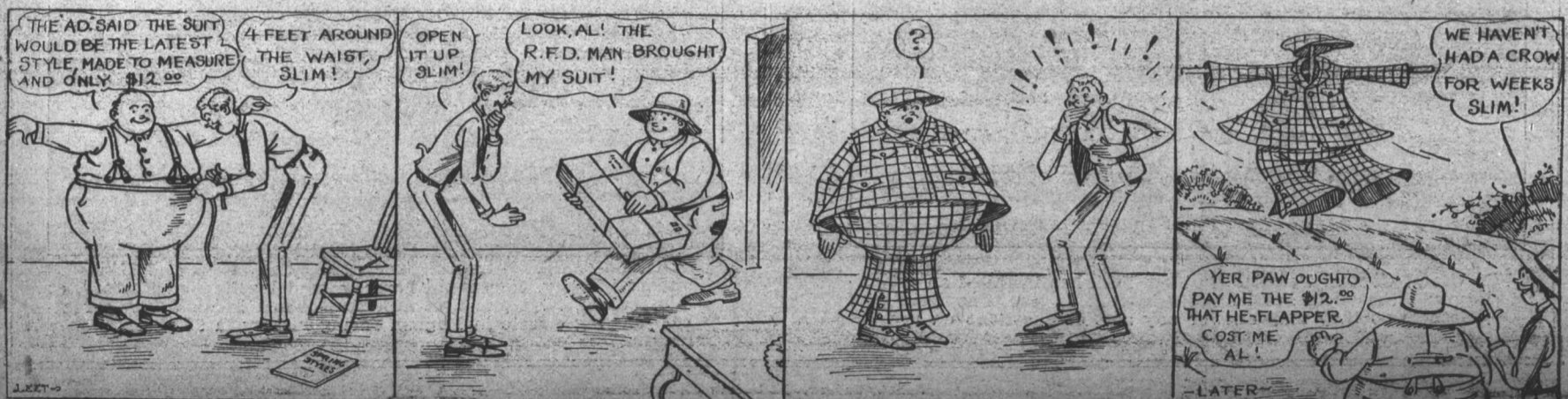
the wall of poplars and feeding came comparatively easily. On sunny days they spent as much time chasing each other through the deepest drifts as they did in pawing for grass. The dry snows made warm blankets and the howling winds, shrieking in the poplars, provided music for their enjoyment of life, often sad, but for all its sadness, sweet.

They were big and strong now. The blood flowed rich and freely through their veins and the hair on their bodies, which was as long as the hair on the bears that at very rare intervals showed themselves and disappeared, kept them warm. The elements, no matter how savagely they raged, could not become disagreeable.

A FEW weeks of springtime with open plains to lope over and new grass, and they grew daily stronger and fleet. Sorrows of the dead past were forgotten and the joys of the present were so all absorbing that even man seemed to have become extinct, as far as they were concerned.

To the joy of unlimited space, of surging healthy blood, of plenty to eat and drink, of peaceful and constant companionship was added the aesthetic pleasures of love. Having first

AL ACRES—Slim Says that the Mail Order Tailor must have Thought Him a Rudolph Vacantbeano. —By Frank R. Lee.



ity that her other joys had always stimulated.

She liked to wander away by herself. White-black would follow her about a good deal and sought to arouse her old play-spirit; but when he realized that he could not influence her any more as he used to, he learned to let her alone. She seemed to have lost her agility and preferred to be on the outskirts of the circle of the herd where she could move about with less excitement. She liked to wander around the small ponds and listen to the croaking of frogs, always lingering till the night shadows lay thick over all things and she heard the ineffable half murmur, half song of wild ducks, as they paddled along in the stillness of the night.

Often by day she would stop her shuffling gait and with her nose down among the blades of grass, she would watch the little sandpiper, wondering what he meant with his heartrending pee-weet and his eternal seeking. Sometimes she would stand for a long time and watch the brown curlew and listen to his persistent, lugubrious complaint. All these sounds, these melodious cries of strange little souls, somehow responded harmoniously to voices and emotions in her own soul, and she looked upon them as fellow beings of the wilds she loved, knowing each by the sound of his voice.

(Continued next week).

RURAL HEALTH

By Dr. C. H. Lerrigo

CATARRHAL TROUBLE.

My husband has much trouble with his nose whenever he is out in dust and a strong wind. He has to blow his nose often and there is some blood.—R. W. B.

This indicates a catarrhal condition with the possibility of inflamed turbinates and some trouble with the septum. Sometimes a very little spot of devitalized mucous membrane is sufficient to cause a great deal of trouble. The wise thing to do is to have an examination by a specialist in nose and throat troubles.

IS SCARLATINA CONTAGIOUS?

Please say if scarlatina is as contagious as scarlet fever.—E. G.

They are simply two names for the same disease. Doctors of a past generation used to call light cases of scarlet fever by the name of scarlatina and that is how the distinction arose. It is a very dangerous one, though, because it leads to carelessness in quarantine. Every case is dangerous.

A TUBERCULAR MOTHER.

We have in our neighborhood a mother of three children who has an active case of tuberculosis. What can be done for the children?—Reader.

Theoretically, the mother can use such care in disposing of her sputum that the children will not be infected; but practically, I do not think this to be possible unless mother and children are separated. The wise thing to do is to arrange for the mother to go to a sanatorium where she can be treated for the disease. If this is quite impossible she may be treated at home, but arrangements must be made for caring for the children elsewhere. It will be out of the question for the woman to get well with the care of three children devolving upon her, and, if they come in contact, the children will almost certainly be infected. They have no doubt received some measure of infection already and should be given very careful supervision. Write to Mr. F. J. Werle, Secretary Michigan Tuberculosis Association, Lansing, Michigan.

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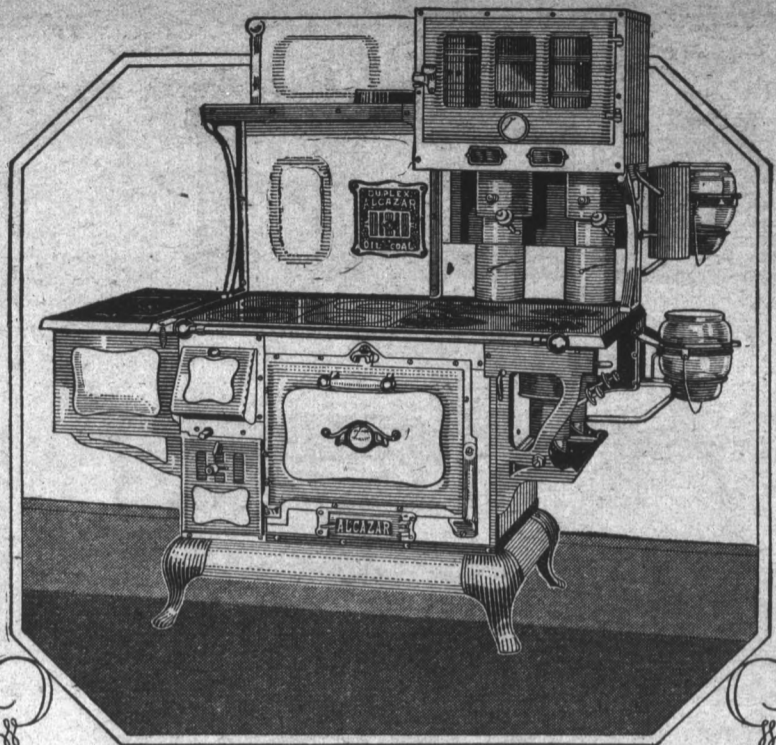
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Michigan Farmer Pattern Service

For Spring, Madame Fashion Makes Her Dresses with Longer Lines and Striking Simplicity



No. 4348—Girls' Dress. Cut in four sizes, 4, 6, 8 and 10 years. A 10-year size requires 3 1/4 yards of one material 36-inches wide. Price 12c.



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No. 4040-4286—Ladies' Costume. Blouse 4040 cut in six sizes, 34, 36, 38, 40, 42 and 44 inches bust measure. Skirt 4286 cut in six sizes, 25, 27, 29, 31, 33 and 35 inches waist measure. To make this dress as illustrated for a medium size requires 8 1/4 yards of 36-inch material. The width at the foot is 2 1/2 yards. Two separate patterns, 12c for each pattern.



No. 4342—Ladies' Blouse. Cut in seven sizes, 34, 36, 38, 40, 42, 44 and 46 inches bust measure. A 38-inch size requires two yards of 36-inch material. Price 12c.



No. 4352—Girls' Dress. Cut in four sizes, 8, 10, 12 and 14 years. A 10-year size requires three yards of 40-inch material. Price 12c.

No. 4018—Girls' Dress. Cut in four sizes, 6, 8, 10 and 12 years. A 10-year size requires 3 3/4 yards of 32-inch material. Price 12c.

Send all orders for patterns to Pattern Department, Michigan Farmer, Detroit, Mich., and be sure to state size wanted.

Woman's Interests

What Is Clothing Economy

By Eunice Ryan
Clothing Specialist, M. A. C.

ECONOMY is an important word to the majority of people. When this word is mentioned the first question that is brought to mind is: How much money is saved? However, in considering the relation of economics to clothing, we must not only consider the money which is saved through wise selection, but also consider economy of time and strength which results in using the shortest and best methods in constructing a garment or in making the household furnishings.

Spring time always brings with it the problem of replenishing the wardrobe to last through the busy summer months, and frequently the task of making fresh curtains or draperies to add a touch of newness to the home. Of course, the housewife is busy and must use the quickest methods in doing her spring sewing.

One of the most important steps towards greater efficiency in sewing is a more adequate understanding of the sewing machine which will result in using quicker methods of work. To many women, the box of machine attachments means very little more than the equipment which comes gratis. These attachments when properly used will save time, money, and produce better workmanship.

French seams can be made with the hemmer. This requires but one length of thread for the seam and also insures the seamstress that there will be no raveled edge on the right side of the garment.

For children's clothing, binding is indispensable as a trimming, and as a

time-saver in making buttonholes. Another useful attachment which is closely connected with the binder is the bias cutting gauge. Its purpose is to cut narrow bias or straight pieces evenly. It is true that bias tape is on the market, but it is much less expensive to prepare it at home. Then, too, perhaps the store does not have just the right color and quality and this little gauge will save endless measuring.

Commercial patterns are a big item to the woman who does the family sewing. The woman who has learned to adapt a pattern to other designs does not only save money but also time and trouble. If she has learned to fit properly and alter her pattern to fit, then it is a simple task to change the design of blouse or dress, using a foundation pattern for this purpose.

The housewife who makes definite plans for her work accomplishes more than the housewife who works without a schedule. The same principle holds true with the housewife who shops with a definite aim. It is necessary for the efficient home-maker to take inventory of the clothes closets and linen closets so that she can plan regarding the number, kind and quality of garments and materials to be purchased. Then she can wisely apportion the amount of money for each item.

To sum up, we might state that further education in the fundamental principles of sewing in textile selection, and in the best methods of work will result in a saving of time, energy, and money for the home-maker.

Baking in the Home

"Michigan Food for Michigan Folks"

WITH the mutual benefit to the producer and the consumer, the program of "Michigan Food for Michigan Folks," well deserves all the attention it is receiving. It fosters the reduction of marketing expenses which are added to the price the consumer has to pay for the food product and subtract from the farmer's profits.

There is no single article of food that is so frequently placed on the table or takes as prominent a place in the average diet as bread. The principal constituent of bread is flour. As Michigan housewives master the proportions of Michigan flour to be used in their daily bakings, they are feeding their families with a high quality of baked foods with a saving to themselves and to the Michigan farmer producing the wheat.

Bread is indeed the staff of life, and we must all agree that good home-made bread is more tasty, more appetizing and more nourishing than bakers' bread can be. Properly balanced with other food products, it may well form a considerable part of our daily diet. Nothing is more appetizing, more palate-tickling than the odors that drift from the kitchen when mother is baking bread. When one sees the golden brown loaves rowed up on the pantry shelf it takes a strong will to resist cutting a slice and spreading it liberally with real country butter or jam to satisfy the false appetite produced at seeing the delicious goodies.

To make good bread it is necessary that the flour be of good quality. Hard

wheat flour, made from spring or hard winter wheat, is often known as bread flour and will produce a large spongy loaf. Soft-wheat flour, made from the soft winter wheat, is sometimes known as pastry or biscuit flour, but makes an excellent grade of bread if a little more flour is used according to the proportions of your own tested recipe, and the dough kept a little softer than with other flour.

The following is a well-tested recipe to make bread from Michigan flour:

Recipe for Three Loaves.

- 1 pint potato water
- 1 pint milk
- 3 quarts Michigan flour, measured before sifting
- 1 cake compressed yeast
- 2 tablespoons sugar
- 2 tablespoons shortening
- 1 tablespoon salt.

(If you make your yeast, half a cake of dry yeast in one quart of liquid will give the same results).

Soak yeast with one teaspoonful of sugar in enough warm water to cover. Scald the milk. Place the rest of the sugar, the salt and the shortening in the mixing bowl and pour the scalding milk and potato water on them. When cooled to lukewarm, add yeast and about one-half of the flour. Set it to rise in a warm place for three-quarters of an hour and knead in enough flour to make a dough that will not stick when kneaded, with but a slight sprinkling of flour on the kneading board. Let it rise in a warm place

(Continued on page 599).

Household Service

WHEN TO SALT VEGETABLES.

In cooking vegetables when is the best time to salt them?—Mrs. B. L.

If salt is added to the water in which vegetables are cooked, it will improve their color and flavor. Much less mineral matter is dissolved out in the process of cooking if salt is added when the cooking begins, rather than when it is nearly finished. When vegetables are wilted and likely to be tough, it is sometimes better to add the salt when they are done.

MAPLE ICE CREAM.

Could you please tell me how to make maple ice cream? We have lots of maple syrup and would like to try some.—Mrs. R. O.

To make maple ice cream, use two eggs, two-thirds cup maple syrup, half cup of milk, one and one-half cups cream. Beat the yolks of the eggs until very light. Add the hot maple syrup and the milk and stir and

For a Layettee

I HAVE had several letters from young mothers asking various questions regarding the layette for the new baby, and I believe some practical suggestions from those with experience would be valuable to them.

For the best letter this week telling of the various necessities needed, the things that are nice to have, and other suggestions for the benefit of the new citizen, we will give an aluminum preserving kettle. The second prize will be an aluminum serving tray, while the third, fourth and fifth prizes will be aluminum sauce pans.

Address all letters to Martha Cole, Michigan Farmer, Detroit, Michigan, before May 10.

cook over hot water until the mixture thickens. Then pour over the stiffly beaten whites of the eggs and cool. When cold, add the cream, pour into the freezer and freeze. A cup of nut meats makes a very delightful change.

BAKING IN THE HOME.

(Continued from page 598). until almost double in volume, then knead until smooth and velvety, and mould into loaves. Put in tins and when it has raised so that the volume or size has about doubled, it is ready for the oven. Bake forty-five minutes in a moderate oven.

This is a very good recipe for raised muffins:

- 1 cup milk
- 2 tablespoons lukewarm water
- 1 teaspoon salt
- 2 tablespoons sugar
- 2 tablespoons shortening (melted)
- 1 egg
- ½ cake yeast (or four tablespoons liquid yeast)

About three cups sifted flour.

Soften yeast cake in lukewarm water, or, if liquid yeast is used, deduct its volume from the other liquid called for. Make a sponge of the yeast, scalded milk, salt, sugar and enough flour to make a soft batter. Beat thoroughly until smooth, cover and let rise for one and one-half to two hours. Break up the sponge and add melted shortening and well-beaten egg, and enough flour to make a "spoon dough." Beat well and drop into greased muffin pans, let rise until double in bulk, and make for twenty-five minutes in fairly hot oven.

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Take the coupon below to any dealer we list here. It is good for 25 cents on a quart can or more of any color Dependable Auto Finish or Auto Top and Seat Dressing.



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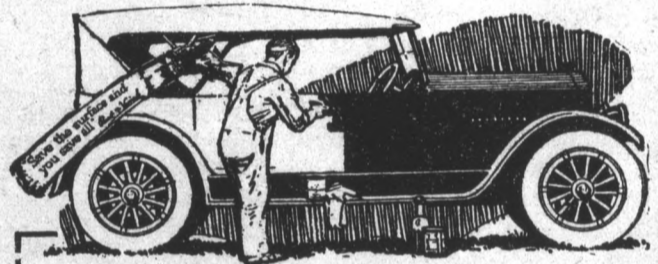
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Roominess! Durability! Comfort!
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STRAWBERRY PLANTS \$2 Post paid
150 Senator Dunlap, 150 Warfield. We have 11 Best Varieties. Also raspberries. 17 years exp. Prices reasonable. Cat. free. J. E. Hampton & Son, R. 3 Bangor, Mich.

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Big guaranteed standard brand tires at a saving of at least 25%. Prepaid to you. Send for prices and circular and mention your size of tire.

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

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Sewage Disposal away from city sewers. Enjoy health and comforts at a low cost. No cleaning out—No attention. Endorsed by leading health experts. Install it yourself.

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FOR FALLEN ARCHES Combination Arch & Ankle Supporter

Weak, swollen ankles, tired feet. Dancing and athletic wear. Made of light durable elastic, can be worn inside shoe or pump. Order by size and width of shoe. \$1.50 post paid anywhere. \$1.00 for arch support only.

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PEONIES 10 roots for \$3.00. Write for Special Offer.
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When you lay a roof on your house or barn you have a right to expect it to look well, last long and give complete protection to the contents of the structure it covers.

Insist upon getting roofing or shingles that bear the above trade-mark.

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44th to 45th Street on Oakley Avenue
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Write for information and samples to Dept. A. P.

Dairy Farming

NOW BANQUETS HIS COWS.

EVERY day in every way we are being told that it does not pay to feed "Old Boss" what she deserves.

A. C. Nelson, of Holton, does not agree. He has been following his tester's advice for some time, giving the grain portions and amounts suggested.

On the March test, "A. C." found that four of his seven cows produced over sixty pounds of fat and that his herd average was over fifty pounds. His herd is average on freshening—one being fresh now, one dry and the remainder freshened in December and January.

Nelson now has his cows in good condition. It required a lot of feeding and time to put them in this shape, but they are there.

To his best producing cows he is feeding no less than thirty-six pounds of silage, twenty pounds of potatoes, fourteen pounds of grain and all the hay they care to eat.

While it costs to feed liberally one must watch the other side of the ledger, as Mr. Nelson has had patience in doing. After these cows punish all the grain and hay they can, then they turn around and promptly give back to their owner \$2.87 worth of butterfat for every dollar's worth of feed handed out to them.

"A. C." admits that the first venture was like going to the dentist. But he went and fed, and soon he saw that his troubles were over so far as dairy profits were concerned.

This man spent \$14.34 during the month on each cow, and the average return was \$41.15, making a profit of \$26.81 per cow. One of his animals, "Goldie," made a profit of \$78.85 in three months. Last year's records show that the same cow, in the same three months, freshening about the same time made a profit of only \$26.03. The figures are the reason why Mr. Nelson has become a died-in-the-wool convert to the feeding program.—Hoyt D. Shisler.

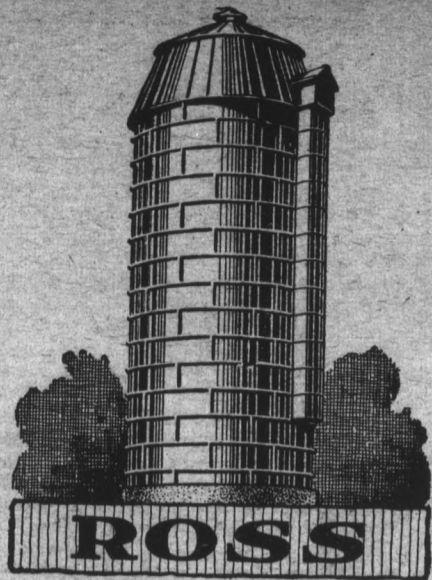
SUMMER FEED FOR COWS.

TIDING the cows over the dry period of summer is a difficult and important matter for us dairymen. Cows which freshen late in winter and in the spring produce well for a short time and then fall off heavily in the milk flow, due very largely to the decline of pasture and the lack of some early maturing succulent feed.

Oats and peas make an excellent combination for summer feeding. I have grown them heretofore for forage with excellent results. The crop may be cut green and fed as a soiling crop or matured and stored. I would sow one and one-half bushels of oats and one bushel of peas to the acre as early in the spring as the soil can be made ready.

Where a large acreage of clover hay is grown, some of it can be cut early and used for feeding. I have done this as early as the fifteenth of June. Alfalfa can be used in the same manner. A neighbor has been feeding alfalfa as a soiling crop and likes it very much for the purpose.

For summer and early fall feeding, I have been growing a small acreage of sweet corn for my cows. It is ready at a time when pasture begins to decline in quality and aids materially in keeping up the milk flow. Sweet corn is highly palatable and produces a large tonnage of fodder. I sow the corn as early as possible after the early spring crops are in, upon good clover sod which has received a covering of manure during the winter. About twelve quarts of seed per acre are required.—Leo C. Reynolds.



the Tried and Tested IN-DE-STR-UCT-O Galvanized Metal SILO

"NOT one ounce of spoiled silage." That's what M. P. Cody of Decatur, Mich., says of his ROSS "In-de-str-uct-o" silo. Every day we get letters from satisfied owners telling us the "In-de-str-uct-o" is the easiest of all silos to erect—the silo that produces 99% Food Value Silage—from every standpoint

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Before you contract for any make of silo—any price—get all of the Ross facts before you. Find out what you save—in first cost, in labor, and in silage—by choosing the times-tested, fire-proof, rust-proof "In-de-str-uct-o."

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TRY a Michigan Farmer Classified Liner—They cost little and bring big results.

Dr. LeGear's Stock Powders

Are your stock in prime condition?

Spring work is on! Thousands of farmers have proved that stock do better and pay better when given Dr. LeGear's Stock Powders. A splendid spring tonic for all animals—expelling the worms, purifying the blood, regulating the bowels and toning up the whole digestive system.

All breeding animals should get this tonic. It gives them the extra vitality needed to stand the heavy drain on their systems and increases the milk flow—the result is stronger, bigger colts, calves, pigs and lambs. 25¢ and up, except far west.

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Dr. LeGear's 30 years knowledge as a national poultry expert given in 12 volumes of 33 lessons fully illustrated—all free with purchases of Dr. LeGear's Stock or Poultry Remedies. See Dr. LeGear's Authorized School Enrollment dealer in your town today, or write us for big free folder which gives full information.

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Get a package of any of my Remedies from your dealer. Satisfaction guaranteed or money back.

Give Dr. LeGear's Poultry Prescription to your young chickens, for quick growth and health.

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\$44 Buys the New Butterfly Jr. No. 2 1/2 Light running, easy cleaning, close skimming, durable. EASY TO CLEAN

NEW BUTTERFLY Separators are guaranteed a lifetime against defects in material and workmanship. Made also in four larger sizes up to No. 5 1/2 shown here; sold on 30 DAYS' FREE TRIAL and on a plan whereby they earn their own cost and more by what they save. Postal brings Free Catalog Folder. Buy from the manufacturer and save money.

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Tag your stock—best and cheapest means of identification for Hogs, Sheep and Cattle. Name, address and number stamped on tags. Catalog mailed free on request.

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THIS well-known picture of all the vital parts of a Hinman shows its simplicity.

Just a handful, that spells perfect milking, clean milk and few repairs.

Simplicity has meant success for the dairymen. It has produced certified milk on thousands of farms and made records with prize cows. It has meant time and labor saving.

It can mean that for you and save its cost in a year.

Send for catalog and Hinman low prices. It's worth getting.

Hinman Milking Machine Co. Sixth St., Oneida, N. Y.

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, Shenandoah, 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.

CURING CANNIBALISM AMONG CHICKENS.

PROF. E. C. FOREMAN says that cannibalism in poultry flocks is due to faulty nutrition and is often greatly encouraged when the birds are closely confined. Ordinarily when birds are on free range, this habit stops unless the trouble has developed in the entire flock. The habit is indicated by the picking of feathers, and sometimes flesh, of one another.

The cure is to feed more protein. If skim-milk is used as part of the ration, the dry mash should contain about ten per cent of protein where the flock is giving a forty to fifty per cent production. If skim-milk is not available, the protein content of the dry mash should be increased to from fifteen to twenty per cent.

Professor Foreman suggests the hanging of a piece of liver in the coop for two or three days. This immediately supplies the protein needs.

ROUP CURE.

I SEE in the Michigan Farmer several inquiries for a cure for roup. Here is one I have found effective. It is made of equal parts of linseed oil and coal oil. I bathe the head parts with a feather. If the throat is closed and they cough I also swab out their throats with the remedy.—Mrs. B. F. Hartzler.

WANT EGGS STAMPED.

THE various housewife organizations of England are endeavoring to put through parliament a bill which will require the stamping of each egg sold in that country with the country of its origin. It has been found that only about ten per cent of the eggs used in England are new-laid eggs from the English provinces. Huge quantities of eggs are imported from Holland, China and Egypt and are mixed with other eggs to be sold as the native product. The housewives believe that the stamping of the eggs will encourage the home poultry industry and will assure them of a fresh product.

THE EGG-LAYING CONTEST.

THE production for the week ending April 17 was slightly lower than the week before, due possibly to the fact that all the pens were disinfecting during the week which necessarily disturbed the hens. As yet, the birds have not shown anything like a spring increase in egg production.

The leaders in the past week's production were the Leghorns belonging to L. N. Clark, of Port Hope, Ontario. This pen laid fifty eggs. The Leghorns belonging to the Wolverine Hatchery came second with forty-nine eggs, and the Northland Farms pen finished third with forty-eight eggs.

In the total production for the contest so far, Mr. E. E. Shaw's pen of Leghorns was the first to cross the thousand mark. This pen leads the contest with 1,036 eggs to its credit.

The ten leading pens and their total production are as follows:

E. E. Shaw, South Haven, Mich., (Leghorns)	1,036
Evergreen Poultry Farm, Greenville, Mich., (Wyandottes)	890
Northland Farms, Grand Haven, Mich., (Leghorns)	890
Brummer's Poultry Farm, Holland, Mich., (Rocks)	881
O. S. Thompson, Allen, Mich., (Leghorns)	876
W. A. Downs, Washington, Mich., (Leghorns)	823
H. E. Denison, East Lansing, Mich., (Rocks)	821
E. D. Taylor, Kalamazoo, Mich., (Leghorns)	811
Mrs. W. H. Chillson, Grandville, Mich., (Rocks)	789
Robert Christophel, Pawn, Mich., (Rocks)	760

Common Water | Union Carbide | Glorious Light!



—cheapest natural element—costs nothing on the farm—as free as air—



—easily available everywhere at factory prices—dependable, uniform quality



—promotes happiness—saves labor, time, and money—saves eyes and health

IN our time no single development means more to the comfort, ease, and economy of farm life than that beautiful eye-saving illuminant—Union Carbide Gas. Just water, carbide, and a simple apparatus produce it.

Science calls it "ARTIFICIAL SUNLIGHT."

Makes every room in the house, including cellar and attic, bright as day.

Mother will have more time for rest, and devotion to the comfort, welfare, and happiness of the children.

Father's reading hours will be lengthened, and he will realize and enjoy the increased happiness of the entire family.

Lights up the barn.

Self lighting—no matches.

And the way unlike light will induce the hens to lay more eggs!

Give them added hours of activity—almost equal to daylight hours—for extra food and water consumption, and lo!—lots more eggs when eggs are highest—lots more profit! Increased egg production reduces cost of lighting entire premises.

World's best quality—highest gas yield. Recognized standard for a quarter century

And you can cook with Union Carbide Gas, too. Thousands of wives are doing it, and their ironing. Heats water for washing, bathing, and shaving. Lights work. No wood, no coal, no ashes. No excessive heat in the kitchen.

We have Union Carbide Warehouses in 150 cities. There is one near you

Again, Union Carbide Gas is so easy to make and costs so little to use! Just water, carbide, and a simple apparatus produce it

UNION CARBIDE SALES COMPANY

30 East 42d Street, Dept. J-58 New York, N. Y.

Please send me, without obligation, information on UNION CARBIDE Lighting and Cooking.

NAME _____ STATE _____

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I am not NOW a Carbide user Note: Every owner of a Carbide Gas Lighting and Cooking Plant should write us, so he will be kept advised of our lowest direct-to-consumer prices and nearest warehouse address, and his name placed on our mailing list for future helpful service.

Pedigreed State Approved S. C. W. Leghorn CHIX American-English Strain

Are you going to buy them from a hatchery or from a BREEDER? Buy from Michigan's Largest Leghorn Farm and insure success. We hatch our own eggs only. Supply limited. Prices reasonable. Satisfaction guaranteed. Descriptive circular tells all about them. It's free. Simon Harkema & Son, R. 1, Holland, Mich.

DUNDEE CHICKS

Barred Rocks, R. C. Rhode Island Reds, Anconas and White Leghorns One grade "The Best." Write for catalogue and price list.

THE DUNDEE HATCHERY Box A. DUNDEE, MICHIGAN

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Chicks & Pullets

From our Strong, Vigorous "SUPERIOR QUALITY" S. C. Anconas, White and Brown Leghorns. Safe arrival guaranteed. Our 10th season. Get our low prices. Catalog free.

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

CHICKS \$10.50 AND UP \$1 From Hogan tested hens. Wh. Br. & Buff Leghorns, 50, \$7; 100, \$13; 500, \$52.50. Bar. Rocks, Anconas, 50, \$7.50; 100, \$14; 500, \$52.50. Reds, Wh. Rocks, Minorcas, 50, \$8; 100, \$15; 500, \$52.50. Buff Orpingtons, Wh. Wyandottes, 50, \$9; 100, \$17; 500, \$52.50. Mixed, 100, \$11; 500, \$52.50. Order now. Catalog Free. Eggs for Hatching, Ref. 1, Banks, Tri-State Hatcheries, Box 512, Archbold, Ohio

Standard Chicks Satisfy!

S. C. English White and S. C. Brown Leghorn Chicks. Vigorous, Healthy, Early Maturing Chicks at wholesale prices. We satisfy our customers, 100 per cent live delivery. Postpaid. Catalog free. Standard Hatchery, Box B, Zeeland, Michigan

PREPARED WHITE LEGHORNS FREE MORE EGGS Lay 265 to 301 eggs per year. Winners at 50 shows. Chicks, eggs, pullets, hens and males shipped C.O.D. at low prices. Write today for catalog and complete information to the World's Largest Leghorn Farms. GEO. B. FERRIS, 934 W. 10th, Zeeland, Mich.

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Order Now For 1923

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

CRESCENT EGG COMPANY Allegan, Michigan

Hardy Northern Bred CHICKS

Barron S. C. White Leghorns. Parker's Strain Barred Rocks. The greatest egg producers known. Heavy winter layers. See record of our pen 16 now at the Michigan International Egg Laying Contest. Get Quality Chicks at Reasonable Prices from HOLLAND'S PIONEER POULTRY FARM. Catalog free. PINE BAY POULTRY FARM R 4 Holland, Mich.

LOOK, CHICKS \$10.50 and up. From highest quality, proven layers. Can ship immediately. W. H. Br. Leghorns \$12.50 per 100. Anconas Buff Leg. \$13.50 per 100. Bar Rocks or Reds \$14.75 per 100. Wh. Rocks, Wh. Wyandottes, Buff Orpingtons, Buff Rocks \$16.75 per 100. Bl. Minorcas \$16.00. L. Brahmas, Bl. Langshans \$22.00 per 100. Add 35c extra if less than 100 ordered. Hatching eggs. Catalog. Good Bank reference. Box 9, Beckman Hatchery, 26 E. Lyon, Grand Rapids, Mich.

Baby Chicks \$12.00 per 100 and up Hatching eggs, \$1.50 per setting to \$15.00 per 100. We are listing 17 varieties of pure bred fowls; Chickens, Geese, Ducks & Guinea, also breeding stock. Send for prices and circular. Booking now for early delivery. CLINGTON HATCHERY & POULTRY FARMS, Wilmington, Ohio.

GUARANTEED CHICKS. Prices low when considered. S. C. Barron Eng. Whites, Browns, Anconas etc. We have Class A Rocks. We sell no class B and class C chicks. 100% live. 10% down. Postpaid. Bank Ref. Catalog free. Order now.

BOSH HATCHERY, R. 2M, Zeeland, Mich.

Baby Chicks Selected chicks from the heart of the baby-chick industry. Leading pure breeds from heavy egg producing strains. Live delivery guaranteed. Send for catalogue and prices. L. Van Hoven & Bro., Zeeland, Mich.

S. C. B. Minorcas. Pen 1, wonderful pen, eggs \$5 per S. setting. Pen 2, almost as good, eggs \$4 per setting. Satisfaction guaranteed. R. W. Mills, Saline, Mich.

OUR BOYS AND GIRLS

Found In Our Letter Box

Letters from Pals for Our Correspondence Corner

Dear Uncle Frank:

I thought I had better write and express my views about knickers and bobbed hair. I have both, and like them fine. Don't you think knickers are just the stuff to play ball in, Uncle Frank?

I live on a ninety-six-acre farm and like it fine. In the summer I wear overalls and dress like a boy. I help milk cows nearly every night and morning. So I am part boy. I look something like one with my hair cut so short.

When I grow older I want to be a nurse. Don't you think that would be a good occupation for me? Yours with love, G. Marian Plane, Silverwood, Mich.

I never had the experience of playing ball in knickers, but I think it is all right; at least, it looks all right. If you like taking care of the sick, nursing would be a good occupation for you.

Dear Uncle Frank:

Don't you think that was a dandy stunt that Edna Crandall's brother played on his father? My, but I wish I had been there to see the faces he made.

If this letter ends up in the waste paper basket I will never try again. Try, try again, is my motto.

I said that the other night and my father said, "If at first you don't succeed, suck lemons," but I think I am sour enough now.

I haven't any Uncle Frank so I wish you would be my Uncle Frank.

Hoping that I may be one of your nieces, Eloise Hartley, Iron River, Mich., Box 648.

I think your father's suggestion is a good one. Sucking lemons may give courage to try again. At least, athletes find sucking lemons beneficial. I will be your U. F.

Dear Uncle Frank:

Our hot lunch club has been a success for two years. I was one of the cooks. Indeed, it was great fun to cook, but it is no fun to cook at home.

I was vice-president in the club this year and when washing dishes, I had to wash every time because the person with me was too small. So he had to wipe. When we served at noon we had to get in line so the cook could wait upon us. The cook I was with was there only about half the time, so it made it hard to cook alone.

I wish more of the schools would have the hot lunch clubs. It is a great help to the children in school; at least, I got along better. The name of our hot lunch club is The Ramsay Energy Club.—Good-bye, Uncle Frank, Arthur Erskine, Nessen City, Mich., R. 1.

I'll bet a cookie you are a good cook. But why isn't it fun to cook at home? I think it would be fun to relieve mother sometimes.

Dear Uncle Frank:

I received the Merry Circle button and membership card some time ago. I was very glad to get them. I think the button is very pretty.

I enjoy reading Our Letter Box very much. We enjoy Hy Syckle. Every time the Michigan Farmer comes my father reads Hy Syckle out loud to us.

We go to church about three miles from here. There is no church when the snow gets so the cars can't run. We hope church will soon start up. When our car wouldn't run last fall my two sisters, my brother and I walked to church every Sunday. I hope Mr. W. B. doesn't get this letter.

Well, I will close.—Your niece, Ada E. Fane, Scottville, Mich., R. 4.

Mr. Waste Basket lost out this time. I bet you have a good healthy appetite for Sunday dinner after walking to and from church.

Dear Uncle Frank:

You see, I am a newcomer. Have you still room for me? I have worked

on many of your contests but as we live very far from the post office I did not get them mailed. Just think, if I would have joined last year, I would have been an old member and you would have paid more attention to my writings now.

I sent in a poem which I made up. I know it won't be as good as the poems you will receive from the other boys and girls. I was surprised when I read the poems they wrote in a contest some time ago.

Well, I will write more another time, if I am accepted in the Merry Circle. I am, (if accepted), your niece, Sadie Jackson, Cornell, Mich., Box 47.

Lots of room yet. Old members do not get more attention but I know their letters better. The boys and girls surprise me with their poetic ability.

EATON YOUTH WINS JUDGING CONTEST.

THE four years of live stock club work which was completed by Don Shepard, of Eaton county, last fall, gave to him a practical knowledge of desirable types of live stock and the points to keep in mind in placing one over the other. In addition to these experiences, Don received a short-course scholarship at M. A. C.



Donald Shepard and One of His Prize Winners.

for being the outstanding all-around county club member in 1920. As soon as he finished his high school work he made plans to take advantage of this scholarship, which he did this past winter.

This splendid club experience, coupled with the instructions received in the sixteen-weeks' short course, gave Don an excellent foundation for competing in the annual short-course live stock judging contest. This judging contest is one of the big features and a very fitting climax to the live stock work.

The contest is looked upon as a very valuable part of the short-course training by Mr. Shaw, dean of agriculture at the college, as he makes a present of a silver loving cup to the winner of this annual event.

The network and organization of agricultural training for young people which has been built up by the college through the boys' and girls' club work and high school agricultural courses is far-reaching in its influence and benefits to the young people of our state, and touches thousands of boys and girls who otherwise would not receive any training from this institution. This preliminary work is climaxed, however, by short-course and four-year courses given at the college which provide a very thorough training for one interested in agriculture as a profession.—R. W. Terry.



Egg Bred BABY CHICKS

The Best Laying Strains on Earth

Barron English White, Leghorns, Brown Leghorns, and Anconas. During 1923 we will sell 30,000 strong, healthy, super-hatched chicks weekly, bred from strains backed by 18 years of actual egg breeding on our Farms. The enormous output of these quality chicks enables us to sell these money-makers at a price unequalled. Our flocks are culled out annually by poultry experts and are mated to large, vigorous 260-288 egg Pedigreed Males from Funk Farm direct.

Hundreds of Customers Report Big Profits

E. I. Beebe, St. Charles, Mich. writes: My 100 hens laid 193 eggs each and I made over \$300.00 clear profit last year.

A. Dall, Port Huron, Mich. The pullets began to lay at 4 1/2 months old and averaged 23 1/2 eggs each for one month.

F. L. Hess, Chicago, Ill. writes: I averaged 112 eggs a day from 140 hens and sold \$158.00 of eggs in February.

Raise Good Stock and Reap a Golden Harvest

We don't boast on a few high record birds but our extraordinary flock's average has attained our present high standard. Intelligent chick buyers look for these qualities and we assure you we have them. Get our 1923 large catalog now, it's free.

Wingarden Hatchery, Box M, Zeeland, Michigan

High Producing Vigorous Pure Bred Baby Chicks

Capacity 150,000 healthy chicks at a setting Fully guaranteed, direct from Trapped, Pedigreed Tom Barron and Hollywood Imported White Leghorns. World's champion layers. Not just a few 300-egg birds, but a high flock average egg production—that's where you make your profit. Hatched in the largest and finest Hatchery in Michigan, by those who know how. Bargain prices if you order now. We can also save you money on Brown Leghorns, Anconas, Barred Rocks, Rhode Island Reds and White Wyandottes. Satisfaction guaranteed or your money back.

Handsome, complete catalog free for the asking. Write for it today.



SUPERIOR POULTRY FARMS, Dept. 101 Zeeland, Mich., U.S.A.

BABY CHICKS Pure Bred for 1923

Bred to lay from carefully mated Flocks, of standard Quality and for Egg Production. We offer you exceptional values in the breeds, Leghorns, Rocks, Reds, W. Wyandottes, Orpingtons, Minorcas and Anconas. Our prices are right when Quality is in consideration. This should be the main point in view. For success, get our Big Catalog of Chicks and Brooders, we have a special offer for you, also how to care for your chicks after you have them. It is Free.

Wolf Hatching & Breeding Co. Dept. 10, Gibsonburg, Ohio

BUY HUBER'S RELIABLE CHICKS

Our 14th Year --- 1,000,000 for 1923

By Parcel Post Prepaid—100% LIVE DELIVERY. Give us your order for some of our RELIABLE CHICKS and we will prove that we give you better chicks for the money than you can get elsewhere. COMBINATION OFFER and SPECIALS OFFERED. Order early. Write for prices and Free Illustrated Catalog.

Huber's Reliable Hatchery, East High St., Fostoria, Ohio

BABY CHICKS Postpaid to your Door, \$11 per 100 Up

FROM HOGAN TESTED, FREE RANGE HEAVY LAYING FLOCKS. ALL VARIETIES.
 WHITE, BROWN and BUFF LEGHORNS and ANCONAS.....\$1.500
 BARRED ROCKS and R. I. REDS.....\$1.400
 WHITE WYANDOTTES, WHITE ROCKS, BUFF ROCKS.....\$1.500
 BLACK MINORCAS, BUFF ORPINGTONS.....\$1.600
 EXTRA SELECTED FLOCKS.....\$2.00 per 100 higher
 All lots of 500, or more discounted Large Price List for return mail.
 Postpaid full live delivery guaranteed. Hatched by the most modern method of incubation from good, vigorous, pure-bred varieties, carefully selected and safely packed. No catalogue. Order right from this ad and save time and disappointment. Reference, Chesaning State Bank or any business in Chesaning.
 Address BABION'S FRUIT AND POULTRY FARM, Guy L. Babion, Prop., Chesaning, Mich.

Karsten's Quality Chicks FARM

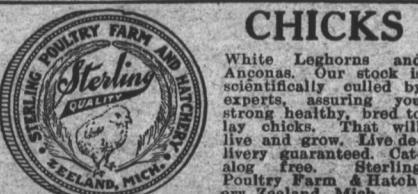
that will lay and pay. The FAMOUS BARRON STRAIN ENGLISH WHITE LEGHORNS, ANCONAS AND BROWN LEGHORNS, QUALITY BABY CHICKS can now be purchased direct from Karsten's Farm and at prices unheard of before. Send for catalog and instructions on care and feeding of poultry for profit.—It's free.

Karsten's Farm, Box 101, Zeeland, Mich.

CHICKS WITH PEP

Try some of our guaranteed Hogan Tested, Dont-Stop-Laying kind of chicks. They will pay you big-Rocks, Reds, Wyandottes, Leghorns, Minorcas, Anconas, Orpingtons. Catalog Free. Post-paid Safe Delivery.

Member I. B. C. Association
 Holgate Chick Hatchery, Box M. Holgate, Ohio



CHICKS

White Leghorns and Anconas. Our stock is scientifically culled by experts, assuring you strong healthy, bred to lay chicks. That will live and grow. Live delivery guaranteed. Catalog free. Sterling Poultry Farm & Hatchery, Zeeland, Mich.

SUPERIOR CHICKS

We hatch Leading Varieties Standard Bred, vigorous, heavy laying stock. Postage paid. Live arrival guaranteed. Lowest prices. Best quality. Prompt deliveries. Send for our large, illustrated catalog. Superior Poultry Co., Box 5-39 Windsor, Mo.

BARRED PLYMOUTH ROCK

Hatching Eggs—full blood \$2.00 per 15. Post paid J. A. BARNUM, Union City, Mich.

BABY CHICKS

Of quality from real winter layers, mated by pedigreed males from Michigan Agricultural College. All our matings are inspected and accredited by our state Dept. Agri. as to their laying ability and health. By close culling year after year we can say we have a real improved egg machine in S. C. American and English strain, White Leghorns and S. C. Shppard strains, Anconas. Write for our 1923 catalogue and price list, it's free. Chicks 10 cents and up. Reliable Poultry Farm & Hatchery, Zeeland, R. 1, Mich.

CHICKS THAT MAKE PROFITS.

Strong, vigorous, well hatched from leading breeds of heavy layers. Moderate prices, 100% live delivery guaranteed. Postpaid. Catalog giving full particulars free. Bank reference, BLUFFTON HATCHERY, Box M, Bluffton, Ohio.

White Leghorn CHICKS

Heavy Laying, pure bred, English strain. Flocks culled and tested for laying ability. Strong, healthy chicks, 100 per cent live delivery guaranteed. Postage paid. Catalog, low price list free. Write quick.
 Catalpa Grove Hatchery, Box 1, R. 2, Holland, Mich.

Bared Rock Chicks

Get our Circular and Price List on chicks hatched from selected stock, before you buy. "Chicks" that "Grow" and "Lay" and "Pay." Kazoo Hatchery Co., R. R. 3, Kalamazoo, Mich.

CHICKS

from good selected heavy laying flocks of S. C. English Leghorns. We keep just the one breed. Write for circular. Willard Webster, Bath, Mich.

Don't Send 1 Penny

4-POCKET SWEATER

Let me send you this sweater. It's knitted of woolspun mercerized cotton yarn which will give unlimited satisfactory service. Made with V-neck, buttons down the front and has four bellows pockets with buttoned flaps. Very stylish for both men and women. A big money-saving bargain. Colors: Navy blue, dark brown, or green. Sizes: 32 to 46 in. chest measure. Order by No. 28.

FREE DELIVERY

Just send your name and address, no money. When the postman delivers this sweater at your door pay him \$2.48 for it. We have paid the full transportation charges. If for any reason whatsoever, it is not better than you expected, return it at our expense and we will cheerfully refund your money.

WALTER FIELD CO., Dept. D 1101 CHICAGO

How To Raise Baby Chicks

Put Avicol in the Drinking Water

Most people lose half of every hatch, and seem to expect it. Chick cholera, or white diarrhoea, is the cause.

An Avicol tablet in the drinking water will save your chicks from all such diseases. Within 48 hours the sick ones will be lively as crickets.

Mrs. Wm. May, Rego, Ind., writes "I was losing 10 or 15 chicks a day from diarrhoea before I received the Avicol. I haven't lost one since."

It costs nothing to try Avicol. Use it either for preventing or treating white diarrhoea and all bowel diseases of poultry. If not satisfied, your money will be promptly refunded. Sold by your local dealer, or send 50c for package by mail prepaid (or \$1 for large size holding 2 1/2 times as much).

BURRELL-DUGGER CO., Indianapolis, Ind.
424 Columbia Bldg.

\$13.95 Buys 140-Egg Champion Belle City Incubator

Hot-Water, Copper Tank, Double Walls, Fibre Board, Self Regulated. \$18.95

\$21.95 Buys 230-Egg Incubator

\$ 9.95 Buys 230-Chick Brooder

Both When Ordered Together, Only **\$29.95**

Express Prepaid

East of Rockies and Allowed West Guaranteed. Order now. Share in my \$1,000 in prizes, or write for Free Book "Hatching Facts." It tells everything! Jim Robins, Pres.

Belle City Incubator Co., Box 14 Racine, Wis.

POULTRY

BABY CHICKS

BEST PAYING, HEAVY LAYING, PURE BRED TOM BARRON English White Leghorns, S. C. Rhode Island Reds, Partridge Necked, STRONG HEALTHY CHICKS hatched from greatest and best incubator known. Chicks are given full twenty-one days and hatched under proper temperature.

Mr. Frank Fulkerson, Niles, Mich., writes as follows: "From the 65 pullets we raised from your stock last year along with the thirty which we had, we got 1610 eggs in December. Can you beat it?"

We are the first and oldest importers of White Leghorns in this state. Watch our pen number 17 in the Michigan Egg Laying Contest. It's Coming Strong!

All flocks thoroughly culled and properly mated to pure bred cockerels. Try Some Real Chicks This Year. Order Now at New Low Prices.

Instructive Catalogue Free

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

Whittaker's R.I. Reds

Michigan's greatest color and egg strain. Bred from winter layers for thirteen years. Customers report flock average of 24 eggs per hen for January, 2 pound broilers at 7 weeks, 2 1/2 pound broilers at 9 weeks. Write for free catalog quoting prices on eggs and chicks. Rose and Single Combs.

INTERLAKES FARMS

Box 39, Lawrence, Mich.

BRED TO LAY CHICKS

Direct from large modern 65-acre Poultry Farm. Result of ten years of careful breeding for heavy egg production. Winners at leading shows.

M. A. C. Inspected and approved. 100% live arrival guaranteed. Shipped Postpaid. Bank references. Order at once at these prices or write for Cat. Barron Eng. White Leg., Brown Leg., and S. C. Anconas. Extra sec.

1000, \$1.50; 500, \$1.00; 250, \$1.00; 100, \$1.00; 50, \$1.00; 25, \$1.00; 10, \$1.00; 5, \$1.00; 1, \$1.00.

Townline Poultry Farm, Dept. M, Zeeland, R. 1, Michigan.

THE LUCKY TEN.

WE received a nice lot of answers to the Read-and-Win, but, somehow, the correct answers seemed to be harder to get than usual. At least, I did not get as many correct papers as I generally do. But, even so, a great many boys and girls got Merry Circle buttons and cards. Below are the ten who got prizes, as well as Merry Circle buttons.

- Pencil Box.**
- Iva Poquette, Alanson, Mich., R. 1, Box 64.
 - Fern M. Funderburg, Mesick, Mich., R. 2.
 - Nickled Pocket Pencil.
 - Eva Hallgren, Waucedah, Mich., Box 24.
 - Helen E. McKee, Constantine, Mich.
 - Rogers Ouellette, Marine City, Mich., R. 3, Box 91.
 - Map.
 - Nellie Mitchell, Carland, Mich., R. 1.
 - Russel Pelton, Charlotte, Mich., R. 1.
 - Lorraine Robach, Conklin, Mich., R. 9.
 - Esther Padley, Reese, Mich.
 - Lillian King, Union City, Mich., R. 1.

Motto Contest

OUR Merry Circle needs a real live motto, something that says a lot in a few words. I believe the best way to get a good one is to get many brains working on it. Therefore, a motto contest this time. Put on your thinking caps and see if you can not work out some worth while thought. The ten best mottoes will win for their writers the usual prizes. The first two will get pencil boxes; the next three, nickled pocket pencils; and the next five, Michigan Farmer maps of the world and new Europe. All worth while mottoes will earn Merry Circle buttons and cards for their writers. This contest closes May 4.

Address your letters to Uncle Frank, Michigan Farmer, Detroit, Michigan.

READ-AND-WIN ANSWERS.

THE contest answers below are the replies to the Read-and-Win Contest which appeared in our April 7 issue:

1. Fifty to sixty per cent—522-10.
2. Virtue—530-18.
3. Fertilizers with high content of phosphoric acid and potash—530-18.
4. Removes soot from chimney—25-537.
5. Mixed husbandry—23-535.
6. Twenty-three per cent—528-16.
7. Exemption from taxes till crop is ready—11-523.
8. Five to ten—5-517.
9. Green food and scratching in moist earth—540-28.
10. The story of Joseph—534-22.

WANT TO CORRESPOND.

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

- Amy Parks, Scottville, Mich., R. 1.
- Wade Parker, Elsie, Mich.
- Elizabeth Kingma, Saranac, Mich.
- Vera Hodge, Allegan, Mich., R. 8.
- Hattie Kelley, Hart, Mich., R. 2.
- Nora Batshelda, Bitely, Mich., R. 2.
- Alvin Vanderver, Sault Ste. Marie, Mich., R. 1.
- Andrew S. Hicox, Rhodes, Mich.
- Fannie Huter, Bailey, Mich.

GREEN LAWN CHICKS SENT INSURED parcel post prepaid. Barred Rox, White Rox, Rhode Island Reds and Black Minorcas, \$16.00 per 100. Brown Leghorns, English White Leghorns or Anconas, \$14.00 per 100. Extra Select \$2.00 per 100 extra. Heavy Broilers, \$14.00 per 100. Oada and Ends, \$13.00 per 100. 5% discount in 500 or 1000 lots. All varieties, etc. each in less than 100 lots. Our 15th year producing high grade chick that please. Our method of shipping positively prevents chilling or crowding and we guarantee 100% live delivery. May, June, July 1c per chick less. Order now and state when you wish chick sent. A saving to cash customers. Deduct 5% if full cash is sent with order. Reference: Fenton State Bank, Green Lawn Poultry Farm, Route 3, Fenton, Mich. Gus Hecht, Prop.

EVERLAY BROWN LEGHORNS

The beautiful business kind! Wonderful winter layers. Big white eggs. World Record layers. American Egg Contest! Greatest winners! No stock. Chicks. Hardy, vigorous money makers. Stock. Best. Chicks. Shipped safely. Catalog free.

EVERLAY FARM, Box 22, Portland, Ind.

EGG BRED BABY CHICKS GUARANTEED TO SATISFY

ENGLISH TYPE WHITE LEG., BROWN LEG.

Selected breeders, inspected and approved and headed by large vigorous males from high record hens. 11 years of breeding and hatching experience assures you of good strong chicks that are hatched right, shipped right, and will grow up into real money makers. Our prices are the lowest, quality considered. 100 per cent live arrival guaranteed. Parcel post paid. Write today for free catalog and Prices.

ROYAL HATCHERY & FARMS
S. P. WIERSMA, Prop. R. 2. Zeeland, Mich.

Buy "Better Quality" CHICKS

We are in a position to furnish chicks from some of the best flocks of ENGLISH WHITE LEGHORNS and ANCONAS to be had, regardless of price. We will be pleased to show any prospective customer the flocks from which we hatch our chicks and have them inspect our modern equipped hatchery. Chicks sent postpaid. 100% good live chicks and your absolute satisfaction guaranteed. Instructive catalogue and prices free on request.

QUALITY HATCHERY, Lock Box 42, Zeeland, Mich.

GUARANTEED RURAL CHICKS

Postpaid, 100% live arrival guaranteed. Scientifically hatched by most modern methods. From free range HIGH AVERAGE PRODUCING flocks, culled and approved by experts. Pullets reported laying at 4 months of age. BIG, HUSKY, PURE BRED, S. C. English White Leghorns, S. C. Brown Leghorns 100: \$13.00; 500: \$62.50; S. C. Anconas 100: \$14.00; 500: \$67.50. Special prices on larger lots. A very limited amount of Extra Selected Special Matings at \$2.00 per hundred higher. Order right from this ad. A deposit of 10c books your order. We can ship whenever desired. Beautiful catalog free. Ref. Zeeland State Bank.

RURAL POULTRY FARM, Dept. M. R. 1, Zeeland, Mich.

300,000 CHICKS

Guaranteed Michigan Bred and Hatched

ENGLISH WHITE & BROWN LEGHORNS, SHEPPARD'S Famous Strain ANCONAS, 50, \$7; 100, \$13; 500, \$60. BARRED ROCKS, R. & S. C. REDS, 50, \$8.50; 100, \$16; 500, \$75. 1,000 orders at 500 rate. RHODE ISLAND WHITES, 100, 18; 200, \$35. Postpaid, full live delivery guaranteed. Strong, vigorous Chicks from heavy laying flocks. Order right from this ad. WE SATISFY OUR CUSTOMERS. Catalog free. Reference Holland City State Bank.

KNOLL'S HATCHERY, Box H, Holland, Mich.

BABY CHICKS

SEX GUARANTEED

The most Progressive Hatchery in the country

A 60% guarantee of sex, giving a majority of either cockerel or pullet chicks, as ordered, plus unsurpassed quality in high egg bred chicks, bespeaks Utility Hatchery & Farms success, and the satisfaction of its customers. Grade AAA flocks are sired by pedigreed males, sworn records from 250-287. Grade AA and Grade A from tested and selected flocks of exceptional merit.

Delivery date guaranteed—100% live delivery guaranteed—60% sex guaranteed—Satisfaction guaranteed.

The Utility Hatchery & Farms is giving away \$5,000 worth of Stock in Amazing Special Contest. Information on contest sent upon receipt of each S. C. White Leghorn order. Don't delay. Get started now. Order tonight.

UTILITY HATCHERIES AND FARMS

Dept. 35, ZEELAND, MICH.

ORDER FROM THESE PRICES

S. C. WHITE LEGHORNS	
Grade A	14c
Grade AA	15c
Grade AAA	16c
OTHER BREEDS	
S. C. Anconas	17c
S. C. Brown Leghorns	17c
S. C. Barred Rocks	20c
S. C. R. I. Red	20c
Broiler Chicks	18c

ATTENTION—GUARANTEED BABY CHICKS

WORLD'S GREATEST EGG PRODUCERS

Tom Barron Imported White Leghorns

SILVER WARD HATCHERY

Sheppard Famous Anconas Direct

From grand selected flocks on free range, built direct from laying contest winners. Strong, vigorous chicks that will prove great layers. Flock culled by poultry experts and headed with vigorous pedigreed males from the best laying strain in the country, postpaid. Full live delivery guaranteed. Fine instructive catalog free. Reference two banks.

Silver Ward Hatchery, Box 39, Zeeland, Mich.

HIGHEST QUALITY CHICKS

Michigan's Old Reliable Hatchery

(The most modern and best equipped Hatchery in the state)

Pure Bred English and American S. C. W. Leghorns, S. C. Anconas, Barred Plymouth Rocks and R. I. 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% live delivery guaranteed. Fifteen years of experience in producing and shipping chicks has given absolute satisfaction to thousands. Write for illustrated free catalog and price list. Get lowest price on best quality chicks before you buy.

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

CHICKS 10c

BARRON'S S. C. W. Leghorn chicks from a high producing flock at 10c. Sheppard's Anconas 11c and Barred Rocks 12c, for June delivery. Special price on eggs for hatching. We prepay all shipments. Send for our free catalogue and order while they last.

BYRON CENTER POULTRY FARM, BYRON CENTER, MICH.

CHICKS

For June 5 and 12 delivery. Improved S. C. English type White & Brown Leghorns, \$10.00 per 100; \$50.00 per 500; extra selected \$12.00 per 100 or \$57.50 per 500. From all good profitable layers, and our selected are from our very best layers.

This is our 12th year breeding, hatching and shipping chicks, and we are offering you chicks from the very best layers at a very reasonable price.

We pay the postage up to your door and guarantee you 100% safe arrival.

Order direct from this ad. To save time, for it pays to be a little ahead of time, or write for our 32 page catalogue.

WOLVERINE HATCHERY, Zeeland, Mich. R No. 2

Baby Chicks

from pure bred egg type birds. Shipped Parcel Post prepaid Barred Rocks and R. I. Reds, 50, \$8.00; 100, \$15.00; 500, \$72.50. S. C. White Leghorns and Anconas, 50, \$6.50; 100, \$12.00; 500, \$57.50. Extra Select High Grade Barred Rocks and R. C. R. I. Reds, 100, \$18.00. Order direct from this ad with full remittance and save time. Remit by Post Office Order, Bank Draft, or Certified check. 100% live delivery guaranteed.

THE MILAN HATCHERY

Box 4, Milan, Michigan

CHICKS

You can now send your order for Chicks in 11 breeds of the Pure Bred Practical Poultry that is making Barred Rocks egg records in the hands of our customers on their own farms. If you own a stock that is guaranteed, stock that will make you real money, send for our description and price list. All stock guaranteed 100%; post paid. We want you to try our stock this year. It is of the best practical stock you can buy.

STATE FARMS ASSOCIATION, 201 Chase Block, Kalamazoo, Michigan.

JUST-RITE LOOK!

Baby Chicks

A Hatch Every Week All Year

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

NABOB HATCHERY, Dept. 15, Gambier, O.

CHICKS

Day-old baby chicks—seven varieties all from pure-bred flocks. Better-bred, better hatched stock. We guarantee satisfaction. Write for free catalog. Airdales.

Lee's Poultry Farm and Hatchery, Edison, Ohio

CHICKS

Price List Prepaid to You. Pure bred Stock.

S. C. White Leghorns	100	50	25
Anconas	\$13.00	\$6.75	\$3.50
Minorcas	14.00	7.25	3.75
Minorcas	17.00	8.75	4.50
Buff Rocks	16.00	8.50	4.25
Barred Rocks	15.00	8.00	4.00

Order from this advertisement. All first class pure bred stock. Prompt shipments made.

THE MONROE HATCHERY, W. Third Street, MONROE, MICH.

CHICKS

All kinds, strictly purebred! Sent postpaid and guaranteed Large illustrated baby chicks book free. Send for your copy today. We hatch the BEST for LESS. COMFORT HATCHERY, Box 1 P.W. Windsor, Missouri

Clark's Business Leghorns

Reduced prices after May 10th. Barron or Wyock chix 13c. Hollywood-Wyock chix 18c. All stock winter trapped. Order direct from this ad.

CLARK, CLARK, Hopkins, Mich.

RHODE ISLAND WHITES

win over all breeds at the egg laying contest. 30 eggs \$5.50; 100 \$15.00 order from this ad. Some chicks H. H. JUMP, 175 Prospect Blvd., Jackson, Mich.

BREEDERS' DIRECTORY

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

Andy Adams LITCHFIELD, MICHIGAN Michigan's Leading Live Stock Auctioneer DATES and TERMS on APPLICATION



Our Product Is The Best

Painstaking, modern and scientific methods, coupled with the finest of breeding animals makes possible our enviable accomplishment.

You, Mr. Breeder, would enjoy and profit by a visit to this unique establishment of superlative breeding.

Your correspondence and inspection are invited

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

Registered Aberdeen-Angus 10 heifers, 6 bulls from eight to fourteen months. Best of breeding. The growthy kind that make good. Reasonable. Inquire of F. J. Wilber, Clio, Mich.

Registered Guernseys A fine Bull ready for light service, special terms if you wish. J. M. Williams, No. Adams, Mich.

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

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

Berrien County Guernsey Breeder's Association

3rd ANNUAL Consignment Sale

EAU CLAIRE, MICHIGAN

Tuesday, May 8th, 1923

12 Miles North of Niles, Mich., 15 Miles South of Benton Harbor, Mich.

A Splendid Son of Abbie of Riverside No. 25280 A. R. 4258, 816 lbs. B. F. and 4 other fine Bulls 32 Females of Choice Type and Breeding.

For catalogues, Address:

EARL HEMINGWAY, Sodus, Michigan

PUBLIC SALE

34 HEAD REGISTERED HOLSTEIN CATTLE

6 HIGH GRADE HOLSTEIN COWS, (all females)

Sale Pavilion Fair Grounds

HOWELL, MICHIGAN

Thursday, May 10, 1923 at 1:00 O'clock p. m.

Herds under State and Federal Supervision (60 day retest privilege). Included in the sale is a cow that has twice made a record above 31 lbs. butter in 7 days, a daughter of a 30 lb. cow, two daughters of 25 lb. cows, a cow that has produced over 14,000 lbs. milk in one year at 28 months old, a daughter of a cow that has produced over 24,000 lbs. of milk in one year and others with good records. Catalogs ready May 1st.

McPHERSON FARMS CO., W. J. Witty, Howell, Mich.

First Annual Sale 25--HIGH GRADE GUERNSEY CATTLE--25

On The Village Farm

SEBAWAING, MICH. SATURDAY, MAY 5, 1923

Consisting of nine cows from 3 to 8 years old fresh or coming fresh, 4 heifers 2 years old, bred and the rest heifers and heifer calves. Every animal over six months old T. B. tested. We never had a reactor. Will also sell about 30 head of hogs. Farm located about 80 rods south of the Ford Garage Sebawaing. Seven months time will be given on good endorsed bankable notes at 7% interest.

EARNEST LUTHER Auctioneer

OSCAR J. WINTER Proprietor

Wanted to buy 6 Grade or pure bred Guernsey cows, ages between 4 and 7 yrs. Must be 10,000 lbs. cows, with high percentage of butter fat. MAPLE HILL FARMS, N. Farmington, Mich.

WINNWOOD HERD

Registered Holsteins



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

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

The Traverse Herd

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

TRAVERSE CITY STATE HOSPITAL Traverse City, Mich.

READY SERVICE

No. 1 30 lb. Grandson King of the Pontiacs' one year old 3/4 white, second dam 29.9 lbs.

No. 2 Grandson of 37th One of the strongest Ormsby bred bulls, dam 28 lbs. as Junior 4 year old.

Send for Pedigree Federal Tested

JAMES B. JONES FARMS ROMEO, MICH.

FOR SALE KING SEGIS BREEDING

Born Sept. 26, 1922. His dam recently completed semi-official test giving 12,475.3 pounds of milk and 449.004 pounds of butter. Average figures recently given show 3600 pounds of milk in a year for Michigan cows. You will notice that this cow shows an increase of 400%. This milk production combined with show type is a decided asset as a future herd sire.

GRAND RIVER STOCK FARMS Jackson, Mich. Corey J. Spencer, 111 E. Main St.

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

Registered HOLSTEIN COWS and heifers at choice breeding. Some just fresh. All guaranteed O. K. Bulls at \$50 each. B. B. Reaver, Akron, Mich.

Wanted Twelve grade Holstein Cows. Must be young and good producers, also tuberculin tested. FRANK RUSSELL Manistee, Mich.

If you want practically pure HOLSTEIN or GUERNSEY calves, write Edgewood Farms, Whitewater, Wis., before ordering anywhere.

WHITNEY FARMS HOLSTEINS

Offering registered cows, heifers, bulls and bull calves at prices the average farmer can pay. Colanthe blood predominating. Pedigrees furnished upon request. Herd under Federal supervision. WHITNEY FARMS, Whitney, Mich.

\$500 gets 4 heifers at St. Johns. They must be sold quick. 4yr. old by 30 lb. bull 21 lb. dam, her 2 1/2 yr. daughter. 4 yr. old granddaughter of Johanna Korn, D. K. and 3 months old heifer. Terms if wanted. J. H. SESSONS, St. Johns or M. L. McLAULIN, Redford, Mich.

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

HEREFORDS

10 extra nice Repeater and Fairfax heifers from 14 to 20 months old for sale, also 10 cows.

ALLEN BROS. Kalamazoo, Mich.

HEREFORDS

Young Cows with calves by side consisting of blood from America's foremost herds at prices that enable them under Earle's Hereford Beef Plan to pay for themselves within a year to 18 months. Bulls including prize winners at the larger shows at practical prices. Herd headed by Straight-Edge 189786, one of two sons of perfection Fairfax out of a daughter of the Famous Disturber, F. F. B. Sotham & Sons, (Herefords since 1839), St. Clair, Mich.

Registered Herefords For Sale.

12 extra good heifers Repeater & Beau Perfection breeding, from 14 to 18 months old; also 20 good cows with heifer calves by side and our Repeater herd bull, we guarantee these cattle in every way. Write or better come and see these cattle; they will please you. A few good bull calves.

THE MARION STOCK FARM, Marion, Mich.

Meadow Brook Herefords Fairfax and Disturber breeding stock for sale, both sexes, any age. Call, phone or write. Earl C. McCarty, Bad Axe, Huron Co.

Maple Hill Farm, Herefords and Polland Chinas farrow left for sale. Two pleasing yearling heifers for sale. George R. Wheeler Mt. Pleasant, Michigan

Auction Sale Wednesday, May 2, 1923

Our entire herd of beautiful registered Jersey cows and calves. 20 new milch cows. Some fine show animals. Write for catalogue.

GEO. E. WALKER & SONS

GRAND RAPIDS, MICH. BURTON HEIGHTS

Farm 7 miles So. of city at Carlisle

BROOKWATER JERSEYS

BULL CALVES FOR SALE

From Register of Merit dams and sired by Majesty's Intense 127191 and Brookwater Veda's King 169615. Write for Prices and description. Herd is on federal accredited tuberculosis free list.

BROOKWATER FARM, Ann Arbor, Michigan H. W. Mumford, Owner. J. B. Andrews, Lessor.

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

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

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

30 Head of Jersey cows and heifers for sale. Chance to select from herd of 70. Some fresh, others bred for fall freshening. Colon O. Lillie, Coopersville, Mich.

Shorthorns Bidwell Revolution Jr. heads herd. Sire, Revolution, Dam, Maxwellton Rosewood 3d, 2d Dam, Imp. Rosewood 86th. Now offering one good roan two year old bull out of a Marr Marigold dam, also a few cows and heifers safe in calf. Prompt attention to correspondences--visitors welcome. State Accredited herd. One hr. from Toledo, O. N.Y.C. Ry. BIDWELL STOCK FARM, Tecumseh, Mich., Box D

Richland Shorthorns

Special offer: Twelve Bulls from twelve to twenty four months old. Red, White, Roan. Good size, best of breeding--from good milking dams. Priced for quick sale. Write for particulars.

G. H. Prescott & Sons, Office at Tawas City, Mich. Herd at Prescott, Mich

CLARADALE FARM, Dual Shorthorns

We are offering 3 Duchess heifers and a young Bull to mate at \$600.00 for the lot 100% R of M Breeding. We can sell you a bull fit to head the best herd, also Cows all ages, reasonably priced. F. W. JOHNSON & SONS, Ouster, Mason Co., Michigan. Drawer 26

Francisco Farm Shorthorns

and Big Type Poland Chinas. One 2 yr. old bred Heifer, \$200. Two choice yearlings, \$150. each. Three bulls, \$100. up. 3 boars, \$25 each. Lots of spring pigs of March farrow. P. P. Pope, Mt. Pleasant, Mich.

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

Milking Shorthorn Bull 11 Mo. old. Glenside breeding. Dark red. A good one. IRVIN DOAN & SONS, Crosswell, Mich.

Steers For Sale

58 Herefords 880 lbs. 30 Herefords 800 lbs. 64 Herefords 720 lbs. 44 Herefords 640 lbs. 46 Shorthorns 560 lbs. 44 Herefords 675 lbs.

Know of other bunches. If in the market for real quality, dehorned, deep reds, good stocker order your choice one load or more from any bunch. Write stating number and weight preferred.

VAN BALDWIN, Eldon, Wapello Co., Iowa

HOGS

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

I AM OFFERING BRED SOWS

fall yearling and spring gilts, bred for March and April farrow, that are tops. Mated to O. O. K. Col. 2nd and Orion Giant Col. Write for price list. W. C. TAYLOR, Milan, Mich.

Durocs Three outstanding sons of Uneceda Orion Sensation. Grand champion Iowa, Nebraska, and Illinois state fairs, and Pathfinder dam. Large, early, one year old, \$35. each. crated and registered. EDMUND THORP, Ann Arbor, Mich., Route 7, B. 9.

Duroc Jersey bred sows and gilts, plenty of size bone and quality April and May farrow bred to grandson of International stock show champ. Prices right. Jos. Schuelter Weidman, Mich

DUROC Fall Boars Ready for service sired by Pathfinder Orion, \$30 each, registered and crated, one sow bred for June farrow at \$40. RUSH BROS., Romeo, Mich.

Duroc Jerseys 12 bred gilts, also 50 registered black top sows. CAREY U. EDMOND, Hastings, Mich

Duroc-Jerseys A few Pathfinder Gilts Bred to a good son of Foust's Top Col., E. D. Heydenberk, Wayland, Mich.

DUROC BOARS--Do you want a good growthy heavy boned fall boar to head your herd. One with size, type and quality, if so write us as we have them. Sired by outstanding herd boar. F. J. Drott Monroe, Mich. R. F. D. No.

FOR SALE Durocs of the Low down heavy boned type. CHAS. BRAY OKEMOS, (Ingham Co.) MICH.

\$12.50 for a real Duroc pig. Woodford Sensation's Breeding. FREED BROS., Elwell, Mich.

DUROCS Fall boars and gilts of quality; prices low. Booking orders Mar. pigs. May Del. \$10, reg. Satisfaction or money back. B. E. KIES, Hillsdale, Mich.

Is It Worth While?

A real boar pig sired by Woodford Sensation, Dams of Defender or Pathfinder breeding.

If so. We have them of Sept. farrow, not only showing extreme quality, but greater size than you will expect to find. Follow M 29 to

Kope-Kon Farms, Coldwater, Mich.

Benjamin's BIG TYPE CHESTER WHITE'S Early maturing, prolific, heavy weight, prize winner kind from bloodlines of Champions and Grand Champions, now making big money for thousands. I have started more breeders on road to success than any living man. Let me help you. Easy to start. Costs little. G. S. Benjamin R. F. D. 10, Portland, Mich.

Chester Whites, We are offering some bred sows and gilts. Prices reasonable. Weber Bros. 10 Mile and Ridge Rds, Royal Oak, Mich.

Chester Whites Herd headed by The Monster and Ivan's Jumbo. Two great Big Type boars of the breed. FRED L. BODIMER, Reese, Mich

For Sale O.I.C. and Chester White Swine, Sept. sows bred for July farrowing, early March pigs sired by a son of "The Monster." Satisfaction guaranteed. Papers free. Bruce W. Brown, Mayville, Mich

Chester Whites Gilts bred for April and May farrow. GEORGE D. SPRINGER, Grand Rapids Mich., R. 6.

Chester Whites Choice March Pigs either Sex, also fall gilts. G. W. PORRETT, Lenox, Mich.

O. I. C's and Chester Whites Gilts sired by Mich. State Fair Gr. Champion 1921, and bred for March and April farrow to Mich. State Fair Jr. Champion 1922, the common sense type and price. ANDY ADAMS, Litchfield, Mich.

21 Reg. O.I.C. SOWS bred August farrow, 7 yearling Boars, 2 Boar Pigs, 10 weeks old. All stock shipped on approval. FRED W. KENNEDY, Plymouth, R. No. 2

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

O. I. C's March boars, bred gilts, July and Aug. gilts. Young Brown Swiss Bulls, Milo H. Peterson, Elmhurst Farm, R-2 Ionia, Mich.

O.I.C. fall boars and gilts sired by Grand Champion Boar at W. Mich. State Fair. We ship C.O.D. reg. free. Geo. M. Welton & Son, Afto, Mich.

O. I. C's Orders booked for late farrowed spring pigs at \$10 to \$12, each. Registered free. C. J. THOMPSON, Rockford, Mich.

O. I. C's 1 gilt 12 mo. old, weight 360; due to farrow June 3rd. 10 last fall gilts to farrow next fall. 120 spring pigs. Recorded free. 1/4 mile west of Depot. City's phone. O. B. Schulze & Sons, Nashville, Mich.

RADIO GIANT

Represents the worlds largest strain of Poland China Hogs. Boars, Sows, Pigs at bargain prices from Mich. pioneer herd. We have bred them big for 30 years. We can furnish what you want. JNO. C. BUTLER, Portland, Mich.

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

L. T. P. C.

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



Clean, Fast Cutting

Kalamazoo
ENSILAGE CUTTERS

The Kalamazoo Ensilage Cutter is the product of long experience. Thousands of enthusiastic users acclaim its superiority. Compare the Kalamazoo before you buy. It gives you more for your money, does the work in less time, with less power, less trouble and makes better ensilage.

Many Superior Features
Have a sturdy lifetime frame of channel steel, unbreakable knife wheel, center shear cut, triple feed rollers that insure steady feeding; reversible shear bar and many other valuable features that will please you. They take the extra big bundles easily and run without vibration, insuring long life.

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Investigate today. Send for the free book containing many valuable facts and giving full description of the famous Kalamazoo Cutters. Special Terms to Early buyers.

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Valuable Ensilage Cutter Facts



MINERAL COMPOUND
FOR SYMPTOMS OF HEAVES

Booklet Free. \$3 Pkg. guaranteed to give satisfaction or money back. \$1 Pkg. sufficient for ordinary cases. **MINERAL HEAVE REMEDY CO.,** 463 Fourth Ave., Pittsburg, Pa.

NATURAL LEAF TOBACCO Select Quality CHEWING
5 lbs. \$1.75; 10 lbs. \$3.00; 20 lbs. \$5; Smoking, 5 lbs. \$1.25; 10 lbs. \$2; 20 lbs. \$3.50. Try it at our risk; money refunded if tobacco returned. **Cooperative Tobacco Growers, Sedalia, Ky.**

HOGS

Fall Pigs Either Sex Sired by HOVER'S LIBERATOR. Gilts will be bred to that first prize boar Tuscola Olanman for August and September farrow. They are as good as the breed affords. Come and see them or write. **DORUS HOVER, Akron Mich.**

Large Type P. C. Largest in Mich.
A few fall pigs for sale. Sired by "The Wolverine" a grandson of "The Rainbow and Big Bob" the greatest yearling boar I ever owned has size combined with quality. Come and see the real kind. **W. E. LIVINGSTON, Parma, Mich.**

Large Type P. C.

The Real Kind. A few of those big, smooth, stretchy, bred gilts for sale. Bred for March, April and May farrow. Priced right. **N. F. BORNOR, Parma, Mich.**

Large Type Poland Chinas

For sale Fall Boars, Gilts bred or open. Herd headed by two Grand Champion boars. **A. A. FELDKAMP, Manchester, Mich.**

Lone Maple Farm Big Type Poland Chinas. Nothing for sale at present. **F. R. DAVIS & SON, Belding, Mich.**

Large Strain P. C. a few choice gilts left. Bred for April farrow. You can't beat the breed for price. **H. O. SWARTZ, Schoolcraft, Mich.**

P. C. Bob and 1075 Peter Pan. Bred to Model Olanman, also fall pigs. **C. E. GARNANT, Eaton Rapids, Mich.**

Big Type Poland China Hogs from prize winning stock, fall pigs, either sex, eligible to Reg. ister. **W. E. LECKY, Holmesville, Ohio**

L. T. P. C. Two fall boars left, am now booking orders for Spring Pigs delivered in May at bargain prices. Write for price and plan of selling. They have made good and will again. **M. M. PATRICK, Gd. Ledge Mich.**

Walnut Alley Big Type P. C. Gilts all sold. Thanks to my customers for their patronage of the past, and all that inquired. **A. D. GREGORY, R. 3, Ionia, Mich**

Hampshires spring boars and bred gilts from 25 sows to select from. Place your order now or you may be too late. 19th year. **JOHN W. SNYDER, R. 4, St. Johns, Mich.**

HORSES

BELGIAN STALLION

Colonel Loeb No. 11569
Born March 26, 1919.
Chestnut with silver mane and tail.

In 1922 showing, as a 3-year-old, he won First at Bay City, Saginaw and Grand Rapids. Second at Detroit State Fair.

Judge Fyke said of him: "One of the freest movers I ever judged."

Well grown, extra good bone, good feet, and full of quality. Write us for full description with picture.

Priced for immediate sale

LOEB FARMS

Charlevoix, Mich.

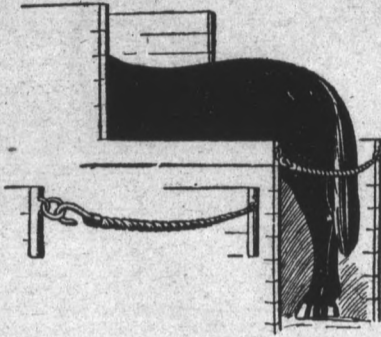
Percheron and Belgian Stallions

of size and quality, including first prize winners. If your locality is in need of a good draft stallion, write me for my breeding plan, which will interest you. **Fred. C. Stevens, Breckenridge, Mich.**

For Sale The Black Percheron mare, Nora, weighing 2000 lb. The proper type for a brood mare. Price \$250. **B. G. PALMER, Belding, Mich.**

ELIMINATES HALTERS.

HORSE stalls so arranged that a heavy inch rope, stretching across each stall behind the horses, saves the necessity of halters. The attachments for each rope are made in a blacksmith shop and must be reasonably heavy and bolted firmly to the stall. One end of the rope is fastened to a ring and bolted to the stall. The other end has a heavy hook to drop into a ring when fastened. Arrange that the stalls are high at the front end so horses cannot reach each other's heads. This method of fastening



prevents the horses backing up and kicking at each other. Horses that attempt to kick at another while passing behind soon learn that the rope is there and is effective. Horses are easily cared for and apparently enjoy the greater freedom of their bodies when not tied by the head. The halter headstalls are hung up in case of need, but are rarely used.—J. Mc.

COST OF RAISING HEIFERS.

AN experiment consisted of raising groups of calves from birth to one and two years of age and keeping a record of all food consumed. In one experiment eleven of the calves were raised to the age of one year. Each calf consumed in that time feed as follows: Hay, 571.8 pounds; grain, 885.5 pounds; silage, 3,693.1 pounds; milk, 110 pounds; skim-milk, 2,114 pounds.

Six of the calves were dropped in the first year. The remaining five were then fed for the second year. During this time, each calf consumed on the average 1,117.8 pounds of hay; 1,221.6 pounds of grain; 8,031 pounds of silage.

These figures emphasize the necessity of providing cheap feed for heifers, such as pasture and silage.—Max J. Miller.

AYRSHIRE BREEDERS PLAN BIG PICNIC.

MICHIGAN Ayrshire men are planning the biggest meeting in the breed's history in the state for May 5. On that date they are the guests of Mr. William H. Murphy at his farm at Birmingham.

Features of the day's program are the inspection of Mr. Murphy's dairy buildings and his prize-winning herd of red and whites, and an address by Paul O. Reyman, of Wheeling, West Virginia, president of the National Ayrshire Breeders' Association.

Breeders from all sections of Michigan will attend and take part in the plans being made for the Ayrshire's further advancement in the state. President W. T. Shuttleworth, of Ypsilanti, and Secretary Edward C. W. Roberts, of Fennville, officers of the Michigan Ayrshire Club, have charge of the day's program.

Ayrshires have made notable progress in Michigan during the past eighteen months, particularly since the organization of the state association in January, 1921. The rapidly increasing popularity of the Scottish dairy breed is resulting in the founding of many new herds.



Spring is Here

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

Youth asserting itself everywhere!

Keep their bodies healthy, and stomachs full.

You can then count on good growth—quick development—and begin to cash in on them before the summer-end.

Let

DR. HESS STOCK TONIC

be your insurance policy

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

Then, there are the mothers:

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

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

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

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

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

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

Except in the far West, South and Canada.

Honest goods—honest price—why pay more?

DR. HESS & CLARK Ashland, O.

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

When You Write to Advertisers Please Say "I Saw Your Ad. in The Michigan Farmer."

Never Drench Cattle

It's Dangerous

Here's the Prescription that SAVED the \$50,000 Bull

Laxotonic And Here's What the Owner Himself Says:

"R. 2, Waupaca, Wis., April 16, 1917.

Dear Dr. Roberts, Waukesha, Wis.

"I thought you would be interested to know that my Holstein sire, Sir Pieterje Ormsby Mercedes 37th, has fully recovered from his attack of paralysis of the bowels.

"You may not know that this bull went about ten days without an action of the bowels in spite of the fact that we had given him ten pounds of salts and two quarts of raw linseed oil without effect. Of course we thought it was constipation and treated him for that, never thinking of paralysis of the bowels until you arrived and examined him and pronounced it that. Your statements at that time decided me to always treat stoppage of the bowels as though it were paralysis and not constipation, for as you say the treatment for paralysis will overcome both constipation and paralysis. That has been proven to me.

"When I think of your little 50c box of Laxotonic saving this \$50,000 bull I cannot help but feel that it is too bad that all cattle owners and breeders do not know of your valuable preparations, as well as your wonderful skill in the treatment of cattle which you so clearly demonstrated in saving this animal. I want you to know that I appreciate the prompt attention that you gave this bull, in spite of the fact that the weather was below zero and the roads were drifted and he was 150 miles from you. You will please find enclosed my check to cover your services.

Yours very truly, (Signed) John Erickson."

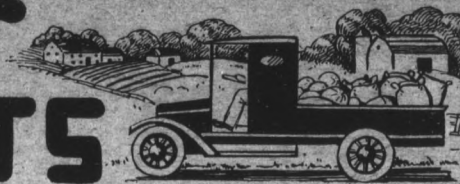
FOR SALE BY DEALERS OR POSTPAID 50 CENTS

Ask for FREE copy of The Cattle Specialist and how to get The Practical Home Veterinarian without cost. Veterinary advice FREE.

DR. DAVID ROBERTS VETERINARY CO., INC., 124 Grand Ave., Waukesha, Wis.



THE LATEST MARKET REPORTS



GRAIN QUOTATIONS

Tuesday, April 24.

Wheat.
 Detroit.—No. 2 red \$1.38; No. 2 mixed \$1.38; No. 2 white \$1.38
 Chicago.—No. 2 hard \$1.27@1.27½; No. 3 hard \$1.26¼; May \$1.25¾.
 Toledo.—Cash \$1.38@1.39

Corn.
 Detroit.—Cash No. 2 at 90c; No. 3 yellow 88c.
 Chicago.—No. 2 yellow 82¼@82¾c; No. 2 mixed 80@80¾c.

Oats.
 Detroit.—Cash No. 2 white 51½c; No. 3, 50c.
 Chicago.—No. 2 white at 46½@47c; No. 3 white 46@46¼c.

Beans.
 Detroit.—Immediate and prompt shipment \$7.
 Chicago.—Choice hand-picked Michigan beans \$7.75; red kidneys \$8.50.

Rye.
 Detroit.—Cash 86c.
 Chicago.—86½@86¾c.

Seeds.
 Detroit.—Prime red clover cash at \$11.75; alsike \$10.25; timothy \$3.30.
 Toledo.—Prime red clover cash at \$11.50; alsike \$10.50; timothy cash at \$3.25.

Hay.
 Detroit.—No. 1 timothy \$17.50@18; standard \$16.50@17; light mixed at \$16.50@17; No. 2 timothy at \$15.50@16.50; No. 1 clover \$13@14; rye straw \$12@12.50; wheat and oat straw at \$11.50@12 per ton in carlots.

Feeds.
 Bran \$38; stan'd middlings \$37.50; fine do \$38@38.50; cracked corn at \$38.50; coarse cornmeal \$36.50; chop \$32.50 per ton in 100-pound sacks.

WHEAT

The wheat market held close to the high point of the season last week under a bombardment of adverse crop reports but the late arrival of planting weather in the northwest, and rain in Kansas and Nebraska, caused a moderate decline toward the close. Unofficial estimates point to an abandonment of about fifteen per cent of the winter wheat acreage, compared with a ten-year average of around ten per cent. The seeding of spring wheat shows a reduction of 5.5 per cent below last year.

CORN & OATS

The department of agriculture has issued an advance estimate indicating an increase of 2.6 per cent in the acreage of both corn and oats as compared with last year. Prices of both corn and oats have been holding within narrow limits during the last ten days. Farmers are selling but little grain at present, but the demand at terminals shows less snap than a short time ago.

SEEDS

Clover seed declined to a new low for the season last week. The spring demand is fairly active but stocks to be distributed are large and the surplus sections still seem to have an ample supply for sale. Timothy and alsike prices have shown but little change in recent weeks.

HAY

Light receipts of hay as a result of bad roads and urgent farm work are responsible for firmness in hay markets. The southern demand has subsided and buyers generally are providing only for immediate requirements.

POULTRY AND EGGS

Receipts of eggs at the leading markets increased last week and with more spring-like weather as an aid to production, prices weakened and declined slightly toward the close. The prices in small interior markets are relatively higher in many cases than at the principal cities.

Chicago.—Eggs, miscellaneous 25@25½c; dirties 23c; checks 23c; extras 32@33c; fresh firsts 24½@26c; ordinary firsts 24½@25c. Live poultry, hens 23c; broilers 50@55c; springers 30c; roosters 17c; turkeys 25c.

Detroit.—Live poultry, broilers 58@62c; heavy hens 28c; light hens 24@

25c; roosters 18@19c; geese 20c; ducks 28@30c.

BUTTER

The heavy receipts and a change of sentiment resulting from the approach of the flush season of production, together with weak foreign markets, caused a sharp decline in butter prices last week. A moderate upturn may occur when distributors' stocks are reduced but all buyers are disposed to avoid carrying any accumulation until the bottom has been reached.

Prices for 92-score fresh butter were: Chicago 40½c; New York at 42½c. In Detroit fresh creamery in tubs sells for 41@42c.

POTATOES

Potato prices advanced early last week but lost part of the gain toward the close. Markets were well supplied with old potatoes but shipments of new potatoes remain rather small. Northern whites and early Ohio are quoted at \$1.25@2 in city markets and \$1.20@1.45 f. o. b. shipping points. In spite of the heavy movement from the producing sections, prices of old potatoes are expected to hold close to the present levels during the balance of the season.

BEANS

Bean prices dropped slightly at the close of last week to \$7.10@7.15 for the choice hand-picked whites f. o. b. Michigan shipping points. Demand is very light. Stocks of domestic beans are considerably larger than last year and there are fully as many foreign

beans being offered as a year ago. The latter are responsible for part of the weakness on domestic beans.

GRAND RAPIDS

Potatoes are in better supply and the market is showing weaker tendencies at 60@70c a bushel. Prices on other products follow: Carrots 90c@1 bu; beets 50@60c bu; parsnips \$1 bu; cabbage \$1@1.25 bu; rutabagas 60@75c bu; eggs 23@25c; beans \$6.50 cwt; heavy fowls alive 23@26c; light 20@23c; broilers 50@55c lb. Spring broiler crop is light and late, due to cold weather and poor hatches. The demand for pork has fallen. Top bids were 10@10½c. Other prices were unchanged.

DETROIT CITY MARKET

The market was not attended by farmers with heavy loads. As a result the supplies of most commodities were light. The buyers were after apples, poultry, potatoes and eggs but did not care much for onions, turnips, beets, carrots and veal. Apples sold for around 90c@\$2 per bu; cabbage went slow at 75c@\$2; carrots 50c@\$1; eggs 27@30c; dry onions \$1.25@1.50 per bu; potatoes 85c@\$1.05; poultry 28@30c; turnips \$1@1.25.

COMING LIVE STOCK SALES.

Holsteins.
 May 10—McPherson Farms Company, Howell, Mich.
 May 15—C. E. Bone, Walled Lake, Mich.

Live Stock Market Service

Wednesday, April 25.

DETROIT

Cattle.
 Receipts 460. Cows and bulls are steady; others 25c lower.
 Fancy light yearlings... \$ 8.75@ 9.00
 Best steers... 7.75@ 8.00
 Handyweight butchers... 7.50@ 8.25
 Mixed steers and heifers... 6.75@ 7.25
 Handy light butchers... 6.00@ 6.75
 Light butchers... 5.00@ 5.25
 Best cows... 5.50@ 6.50
 Butcher cows... 4.75@ 5.00
 Common cows... 3.25@ 3.50
 Cannors... 2.50@ 3.00
 Choice bulls... 5.50@ 6.00
 Bologna bulls... 5.00@ 5.50
 Stock bulls... 4.00@ 5.00
 Feeders... 6.00@ 7.00
 Stockers... 4.75@ 6.25
 Milkers and springers... 40.00@80.00

Veal Calves.
 Receipts 975. Market is steady on good; common very slow.
 Best... \$10.00@10.50
 Others... 4.00@ 9.00

Sheep and Lambs.
 Receipts 306. Market steady
 Best lambs... \$ 11.50
 Fair lambs... 10.25@11.00
 Light to common... 9.00@10.00
 Fair to good sheep... 6.50@ 7.25
 Culls and common... 2.00@ 3.00

Hogs.
 Receipts 410.
 Mixed hogs... \$ 8.25
 Pigs... 7.50
 Heavies... 7.75@ 8.00
 Stags... 4.00@ 5.00

CHICAGO

Hogs.
 Estimated receipts today are 22,000. Market slow; light are 10@15c lower; butchers steady to 10c lower. Bulk 170 to 210 lbs \$7.95@8.10; 225 to 325-lb butchers \$7.60@7.90; packing sows \$6.10@6.35; pigs dull.

Cattle.

Estimated receipts today are 11,000. Beef steers slow and weak to 15c lower. Top heavies \$10.15; long yearlings \$10; bulk beef steers at \$8.25@9.50; yearlings and lightweights numerous; bulls steady to weak; bolognas around \$5.25, others generally steady. Bulk of veal calves to packers at \$8@8.50; shippers \$9.50@10.

Sheep and Lambs.

Estimated receipts today are 13,000. The market slow, early sales around steady. Top wool lambs \$15; clipped mostly \$11@12; few native spring lambs \$15@17; sheep around steady. One load \$10; clipped ewes \$7.

BUFFALO

Cattle.
 Receipts 4,100. Market 15c lower. Choice to prime shipping steers 1400 lbs up \$9@9.25; good to choice shipping steers \$8.25@8.50; heavy fat medium quality \$8@8.25; medium to good \$7.75@8; light native yearlings fancy quality at \$9@9.50; medium to good \$8.50@8.75; best handy steers at \$8@8.25; plain at \$7.25@7.50; handy steers and heifers \$7.50@8; western heifers \$8@8.25; light Michigan butchering heifers \$7.75@8; best fat cows \$6.50@7; medium to good \$4.50@5; cutters \$3.50@3.75; cannors of good weight \$2.25@2.50; light fat bulls at \$6.50@7; best heavy bulls \$5.25@5.50; heavy bologna bulls \$4.50@5; common bulls \$3.50@4; best feeders 700 to 800 lbs \$7@7.25; medium feeders \$6.25@6.50; stockers good at \$6@6.50; light common \$5@5.50; best milkers and springers \$6@8; common and medium \$3.50@4.50.

Calves.—Receipts 900. Market is steady. Top calves at \$4@11.

Hogs.
 Receipts 10,200. Market is slow and steady to 35c lower. Heavy at \$8.25@8.50; yorkers \$8.60; pigs \$7.65; mixed \$8.50@8.60; light yorkers \$7.65@8.50; roughs \$6.75; stags \$4.50@5.50.

Sheep and Lambs
 Receipts 400. Lambs strong. Clipped lambs \$5@12.25; wool lambs \$9@15.

Give your Engine Power

Give it a chance. Engines that pile up heavy gas and oil bills mean scored or worn cylinders or sloppy pistons. Renewed parts and reground cylinders give more power—make less upkeep. New rings, bushings, bearings, etc. replaced by us from stock.

FARM ENGINES
 Both tractor and stationary rebuilt and made good as new. Cracked water-jackets welded. Ship your old parts to us for real service. Write for estimate of costs, mentioning requirements. This Guarantee Tag on all our parts is your insurance of service and good workmanship. Quick Service—Delivery f. o. b. Jackson.

Jackson Piston Service Co.
 619 E. Main Street : : Jackson, Michigan

Cal. 30

U. S. Army Krag Carbines

All carbines have the new model 1899 stocks. The barrels, actions and parts are either new or have been re-finished by the Gov't, and are equal to new. **AMMUNITION \$4.00 HUNDRED.** Also Krag parts. Send for new catalog.

W. Stokes Kirk, 1627-AF N. 10th St., Phila., Pa.

BERRY BASKETS AND CRATES

Can make immediate shipment on a grade wood qt. baskets, and 16 or 24 qt. crates for same.

Send for prices.

M. H. HUNT & SON Box 526 Lansing, Mich.

OPPORTUNITY BECKONS

in Silver Fox Ranching. If interested in purchasing unsurpassed advanced registered breeders communicate with us. Our prices are right. The most profitable branch of animal husbandry in the world today. Growth fostered by the U. S. Government. Write for booklet. **GREENVILLE SILVER FOX CO. Inc.** State Bank Bldg., Greenville, Mich.

BROWN EGGS Boston Market pays a premium for brown hen eggs. We charge no commission, send checks promptly. Have your name put on our quotation list. References: National Shawmut Bank, Boston, Dun or Bradstreet Commercial Agencies.

MCARDLE LIVE POULTRY & EGG CO.
 Boston, 16, Massachusetts.

CABBAGE, onion and tomato plants \$1.00 thousand. Purebred Porto Rico potato plants; kind Northern markets demand \$1.50 thousand. Mail or Express. Guarantee safe arrival any State. Investigate further. Catalog free. Carville Seed & Plant Co., Valdosta, Ga.

For Sale Senator Dunlap, Gibson and Dr. Burrell Strawberry Plants. No better plants at any price. 50c per 100; \$4.00 per 1,000. Parcel post prepaid. John J. Williams, Fremont, Mich.

WOOL BATS We do custom work. Send us your wool for batting. Write. **WEST UNITY WOOL BATTING CO.,** West Unity, O.

EXTRAORDINARY GUERNSEY EVENT

THE WIGMAN--SURATO SALE

HOLT, MICHIGAN

Wednesday, May 9th, 1923

65 head of high class cows and heifers and a few choice bulls, which in quality and breeding surpasses any offering of Guernseys ever made in Mich. No one can study this lot of young things sired by Uplands Monarch of the May without enthusing as to their merit and their probable value to the breed. This herd has been a consistent winner at the state fair for several years. Cows with A. R. records will be found; animals who have won high honors in the show ring, and animals that have proven their worth as breeders are in the sale. A real opportunity for Mich. farmers to buy at their own price, one or more animals of the greatest breed of dairy cattle on earth. The catalogue will tell you all about them. For your copy write, mentioning Mich. Farmer,

H. W. WIGMAN, Lansing, Mich.

WOOL

The wool market is gradually gaining breadth, both at seaboard points and in the wool growing sections.

HORSES

Horse prices were practically steady at Chicago last week. The range on draft horses is from \$540@600.

CLASSIFIED ADVERTISING

This classified advertising department is established for the convenience of Michigan farmers. Small advertisements bring best results under classified headings.

Rates in Effect October 7, 1922

Table with columns: Words, One time, Four times, Words, One time, Four times. Lists rates for various ad lengths and frequencies.

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

MISCELLANEOUS

IF YOU WANT EARLY CABBAGE, set our "Frost-Proof" Plants. All leading varieties, 50c 100; 300; \$1.50; 500; 1000; \$2.25. Mailed prepaid.

WANTED—Freak animals or poultry. Submit price and photographs. Charles Browning, Riverview Park, Chicago, Ill.

FOR SALE—One Buckeye Ditcher, 20-horse, four-cylinder motor. Machine in good condition.

MONEY TO LOAN ON FARMS, 6% interest. No commission. No mortgage tax. Security Mortgage Corporation, 540 Majestic Building, Detroit.

FOR SALE—Minneltona Home Creamery churn and worker combined, does fine work.

FOR SALE—Detour Tractor Plow \$50; Bull Tread Plow \$40; Tractor Tire Ditcher \$70.

LARGE dry shaved cedar post house blocks, 14th. Prices right. Albert J. Schmidt, Hillman, Mich.

MOLINE tractor, four cylinder, in good condition. E. Ftanigan, Woodland, Mich.

DOGS

HOUNDS, HOUNDS, HOUNDS, Fox, Coon, and Rabbit Hounds, broke to gun and field, started hounds and puppies all ages.

GERMAN Shepherd, Airedales, Collies; Old English Shepherd dogs; Puppies; 10c illustrated instructive list.

COLLIE PUPS—Heel driving parents, \$5. Arthur Borsiel, Britton, Mich.

NEWFOUNDLAND DOG. Good watch dogs and companions. Foxterriers get the rats and other pests.

POULTRY

PULLETS. Barron English White Leghorns, eight weeks to maturity. May to October breeding flocks repeatedly culled by experts.

CABALL'S BARRED ROCKS—Lead them all. Leading hen Nat'l. laying contest, over all breeders laying 293 eggs.

Evergreen Poultry Farm won the silver cup at the M. A. C. Laying contest for highest winter production with their (Ered to Lay) White Wyandottes.

RHODE ISLAND REDS—Rose Comb Cockerels, hatched, farm raised. Big, thrifty, dark colored birds from prize winning strains.

STALE BREAD for chickens and hogs; 24-oz. loaf 2c. Also once used egg crates, car load 15c each.

RHODE ISLAND REDS—Rose comb, prize-winning strain. Mating List Free. Mrs. J. Miller, Bay City, Mich.

THE PURE TOULOUSE GOOSE EGGS, \$4.75. Insurance and Parcel Post paid. Choice White Leghorn baby chicks, \$12.00 per 100.

BARRED ROCK Hatching Eggs. Parke 200-egg strain. \$2 per 15, \$3 per 50, \$10 per 100 by prepaid parcel post.

ABSOLUTELY FREE—setting of Hollywood eggs free with every order of hundred grade H or S chicks for May and June delivery while they last.

FOR SALE—150 S. C. White Leghorn Pullets, 10 months old, \$1.25 each. W. B. Stewart, Belding, Mich.

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

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

SICILIAN BUTTERCUPS—Excellent layers, good table fowl. Eggs \$1.50 per fifteen. Ida Frause, Maple City, Mich.

MARTIN W. Wyandotte eggs. \$1.00 per 15. C. H. Spooner, Rosebush, Mich.

50 Giant Black Minorca Cockerels \$2.25. Eggs \$3.00 per 100. Mike Schaefer, Essexville, Michigan.

PAWN runner duck eggs, \$1.35 for 13. Postpaid. Milton Williams, Lake Ann, Mich.

BABY CHICKS

CHICKS GUARANTEED—Healthy, sturdy thriving chicks. Flocks that are mated with Michigan Agricultural College cockerels, Barred Rocks, S. C. Anonas, White and Brown Leghorns, pullets and breeding cockerels.

PROFITABLE CHICKS—Reduced prices, high quality. Selected heavy laying strains—Leghorns, Rocks, Reds, Minorcas, Wyandottes, Orpingtons, Sheppard's Anonas, 100% delivery.

BABY CHICKS—White Wyandottes, White Plymouth Rocks, Barred Rocks, Buff Rocks, Buff Orpingtons, R. I. Reds, White Leghorns. Durand Hatchery, Fenton, Mich., Box 404.

BABY CHICKS bargain prices. Barred Rocks, White and Brown Leghorn. Guarantee full 100% alive, free delivery. Hillview Poultry Farm Hatchery, R. 12, Holland, Mich.

QUALITY CHICKS, eggs. Sixteen standard bred varieties. Best winter laying strains. Free delivery. Reasonable prices. Catalog free. Missouri Poultry Farms, Columbia, Missouri.

BABY CHICKS from heavy egg producing strain. English and American S. C. W. Leghorns closely culled, 100% alive. Circular free. Montella Hatchery, Route 1, Holland, Mich.

BABY CHICKS. 15 Leading varieties, 2 1/2 Million for 1923. The kind that lay early. Large, vigorous, fluffy kind. Lowest prices. Send for large catalog. D. T. Farrow Chickeries, Peoria, Ill.

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

The Real Estate Market Place

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

CHICKS—White Wyandotte and White Rock. R. I. Reds and Barred Rocks, \$18 per 100; \$29.50 for 50 and \$4.75 for 25. White Leghorns \$12 per 100; \$6.50 for 50 and \$3.25 for 25. Order from this ad. Terms cash, with order. Reference, Bank of Mt. Morris Mt. Morris, Mich. 100% live delivery guaranteed. Meadow Brook Hatchery, Mt. Morris, Mich.

BABY CHICKS—Six leading varieties. Write your wants. Special prices on large advance orders. Free catalog. H. H. Pierre, Jerome, Mich.

BABY CHICKS AND HATCHING EGGS Direct from our farm at greatly reduced prices, only 9c up. Barred Rocks, W. Leg. and Anonas. Write quick for particulars and special introductory offer. Model Poultry Farm and Hatchery, Zeeland, R. 4, Mich.

CHICKS—English S. C. W. Leghorn, \$12 per 100. Reds and Rocks \$18 per 100. 100% live guaranteed. Reduced price on large lots. Waterway Hatchery, R. 4, Holland, Mich.

CHICKS, eggs. Strong, healthy, bred to lay stock. Five leading varieties. Prices right. Satisfaction guaranteed. Circular free. Sheltered Nook Poultry Farm, Grandville, Mich., R. 1.

BABY CHICKS—S. C. White Leghorns, carefully selected, heavy producers. Bank reference. Write for prices. Postpaid, live delivery guaranteed. Louis L. Van Huis, Holland, Mich., Route 1.

QUALITY CHIX: White, Barred Rocks, Reds, \$14. White Leghorns, Anonas, \$12. Order direct. Bank reference. Silver Spring Hatchery, Box 97, Abingdon, Ill.

EGGS THAT HATCH; Chicks that live. Low prices Won over 5,000 prizes. Furnished Government and schools. Catalog free. Sterling Poultry Farms, Box 30, Sterling, Ill.

BABY CHICKS—White Wyandottes, White Rocks, Barred Rocks, R. I. Reds and White Leghorn. Leghorns from M. A. C. 250 egg strain. Write for price list. Fenton Chicken Hatchery, Fenton, Mich.

STURDY CHICKS—Pure bred-to-lay flocks single comb White Leghorns, Anonas, Reds, White Wyandottes, Pekin Ducks; catalog. Sunnybrook Poultry Farm, Hillsdale, Mich.

BARRED ROCKS—Eggs and baby chicks from Silver cup winners. Eggs \$2.00 per 15 delivered by P. P. Circular free. Fred Astling, Constantine, Mich.

PUREBRED CHICKS from free range flocks. Member Mid-West Baby Chick Association. Thos. G. Callaghan, Fenton, Mich.

STERLING QUALITY CHICKS—14 varieties. Strong liveable chicks. Catalog free. P. F. Clardy, Box 6, Ethel, Mo.

LOOK 75,000 Hi-Grade Chicks 12c and up. 10 varieties. Best over produced. Hatching guaranteed. Lawrence Poultry Farm, R. 7, Grand Rapids, Mich.

HELP WANTED

WANTED—Experienced farmer and wife (No children). Wife to assist with housework. Single man for farm work, experienced. Single man for dairy work. Modern Dairy, Hog & Poultry Farm. Best of living conditions. Good wages. G. E. Emstrom, Maple Hill Farms, N. Farmington, Mich.

WANTED—A girl for general housework, three in family, laundry sent out. Mrs. Malcolm H. Smith, 616 Acklin Ave., Toledo, Ohio—Home Phone Main 6901.

WANTED—Man to milk Test Cows, yearly and 7-day work. Also a few good milkers. Bazley Stock Farm, Ypsilanti, Mich.

RATES For Real Estate Advertising On This Page 35c a line per issue on 4 time orders 40c a line per issue on 1 time orders

CHOICE LOT MICHIGAN FARM LAND 740 acres; 12 miles from city; 125 acres cleared; all fenced. Natural clover soil. Some saw timber and cedar; quantity fuel wood. New ten room house, modern; water, heat, light, telephone. Barn; cow barn; granary; root cellar; implements; stock; 1,100 young fruit trees, mostly apple, beginning to bear. Box 7, Alpena, Michigan

Buy a Farm in the great fruit and farming country of Northwest Arkansas where land is cheap and terms are reasonable. For free literature and list of farms write J. M. Doyel Mountainburg, Arkansas.

FOR SALE Southeastern Colorado—irrigated ranches. Write for free information. Gregg Realty Company, Lamar, Colorado.

GRAB THIS: Forty acres, famous fruit section. Good home. Plenty fruit. Railroad fare paid. Only \$800 needed. Free list other Michigan farm bargains. Albert Shirley, Rose St., Kalamazoo, Mich.

Sell your property quickly for cash, no matter where located. Particulars free. Real Estate Salesman Co., 515 Brownell, Lincoln, Neb.

Poor Man's Chance \$5 down, \$5 month productive land near town. Some timber. Price \$225. Other bargains. Box 45-Z, Carthage, Mo.

80 Acres Improved \$5 per acre \$1000. proved \$8.50 per acre \$1000 cash. 100 acres improved \$1000 cash. THE ALLEN COUNTY INVESTMENT CO., Iola, Kansas.

WANT TO HEAR from owner having farm for sale. Must be a bargain for cash. ALBERT J. SHIRLEY, 703 South Rose St., Kalamazoo, Mich.

We Have Cash Buyers for farms at real bar gain prices. Describe fully. Central Land Bureau, New-Franklin, Mo.

CASH YOUR PROPERTY QUICKLY location immaterial. Give best price. Universal Sales Agency, Box 43, N. Topeka, Kans.

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

FARMS: If interested in an Ohio paying poultry farm fully equipped write. Farms all sizes and prices. H. H. WEBBER Agency, Atwater, Ohio

WANTED to hear from owner improved or unimproved farm. Description. Price. JOHN LEADERBRAND, B-45 Cimarron, Kansas.

For Sale, Highly improved 265 Acres. PETER M. NELSON, Handford, Cal.

TRY a Michigan Farmer Classified Liner. They bring results.

Reid's MILK COOLER Milk not cooled over a Reid Cooler is likely not properly cooled. Get a Reid and save sour milk losses.

ABSORBINE Will reduce Inflamed, Swollen Tendons, Ligaments, or Muscles. Stops the lameness and pain from a Splint, Side Bone or Bone Spavin.

SPOHN'S DISTEMPER COMPOUND Will relieve Coughs and Colds among horses and mules with most satisfactory results.

FREE! 80 page Land Clearing Book illustrated in colors. Written by land clearing experts.

HEAVES is your own horse afflicted? Use 2 large cans. Cost \$2.50. Money back if not satisfactory. ONE can at \$1.25 often sufficient. In powder form. Most for cost. NEWTON'S A veterinarian's compound for Horses, Cattle and Hogs.

FARMER AGENTS WANTED \$30 to \$25 a day dead easy. Remarkable new invention saves every pig, hog, chicken, turkeys and hog breeders buy dozens to hundreds. Act as our agent in your vicinity. Earnings will surprise you. Write quick for exclusive territory. JUBILEE MFG. CO., Box 233 Sta. C., Omaha, Neb.

Agents Make ten dollars a day taking orders for our quality shoes. You can do the same. Repeat orders insure you a steady income. No experience necessary. Write at once for particulars. Part time or full time. Long Wear Shoe Co., 123 Nicollet Ave., Minneapolis, Minn.

\$2 000 Gets So. Michigan Farm 80 Acres With 5 Cows and Team, sows, 100 poultry, furniture, modern implements, tools, seed, gas engine, etc.

\$1200 Secures Equipped 40 Acres, House All Furnished. Horse, 2 cows, brood sow, 50 hens, long list farm machinery, splendid lot furniture for 6 rooms.

50 Acres Equipped Farm Good Bldgs; 3 Acres Berries Many advantages for whole family: pleasant surroundings, good income; convenient to R. R. town; 45 acres leamy fields; pasture, woodland; apples, cherries, 3 acres strawberries and raspberries.

FARMS WANTED List your farm with the oldest established real estate agency between Detroit and Lansing. Fair dealing; quick results; no contract required. Farm Dept. R. A. WINGARD 746 Starkweather Ave. Plymouth, Mich.

Own a Farm In Minnesota, Dakota, Montana, Idaho, Washington or Oregon. Crop payment or easy terms. Free literature. Mention state. H. W. Byerly, 71 Northern Pacific Ry., St. Paul, Minn.

WANTED-To hear from owner of land for sale O. K. HAWLEY BALDWIN, WIS Farm Wanted, Send description, lowest price Adams, 1931 Forest, St. Louis, Mo

Sharood's Smashed Prices — Positively Greatest Values in America

Send No Money—Pay On Arrival

Women's Dressy Black Satin Strap Pump

\$1.98

State sizes.



Women's black satin dress pump one-strap, one-button style with fancy rosette and ornament on strap. Plain vamp with medium low and close edge trim sole with low rubber heels. Genuine oak soles. A dressy stylish new spring fashion that will be all the rage among the best dressed women. Sizes, 2 1/2 to 8, wide widths. Order by No. 18A56. Send no money. Pay only \$1.98 and postage on arrival.

Women's Stitchdown Patent Leather or Brown Calf Oxfords

Classy stitch-down Oxford for women. Wonderfully comfortable and stylish. Smooth leather insoles. Flexible uppers of dark brown or patent leather stitched-down oak outsoles. Low rubber heels. Size 2 1/2 to 8. Wide widths.

\$1.98

UP Order by No. 18A268. Send no money. Pay only \$1.98 and postage on arrival.

Order Patent leather by No. 18A264. Price \$2.48. Pay \$2.48 and postage on arrival.

GUARANTEED SIX MONTHS WEAR U. S. Army Work Shoe For Men and Boys

\$2.98



State size

Men! Don't lose a moment in ordering this wonderful brown work shoe. It is made of leather as near water-proof as can be made—solid leather through and through with full grain leather uppers, guaranteed to wear six months. Easily worth \$5.00. Two full, heavy double soles, sewed and nailed for greater strength. Extra wide, full leather counter, riveted to prevent ripping. Sizes 7 to 11, wide widths. Order by No. 18A700. Send no money. Pay \$2.98 and postage on arrival.

BOYS' GUARANTEED SHOES—Six months guarantee. Two green chrome leather soles. Same feature quality points as shoe above. Sizes 1 to 5 1/2. Wide widths. Send no money. Order by No. 18A550. Pay \$2.69 and postage on arrival.

Women's Comfort Oxfords or Hi-Cut Shoes Only

\$1.98

Send No Money

SIZES 2 1/2 to 8

State size.

Every woman should get a pair of these sensible broad toe shoes at this amazing price. Uppers of soft kid-finish leather. Solid oak leather soles. Low rubber heels; comfort cushioned insoles. Sizes 2 1/2 to 8. Order Oxford by No. 18A233. Order High Shoe by No. 18A263. Send no money. Pay \$1.98 and postage on arrival.

Don't send one cent just, letter or postcard

brings any of these smashed price bargains. Absolutely no obligation and not the slightest risk to you. Merely give name and number of each article you want. Also state size and write your full name and address plainly to avoid delay. Pay nothing till goods arrive—then only the amazing bargain price and postage. Then examine your selection—try it on—show it to your family and friends. Then if you are not delighted with your bargain your money will be cheerfully refunded. ORDER NOW.

Women's Pretty Voile Dress \$1.98

Very attractive, dainty voile dress with organdy trimming. Beautiful figured voile with new side panels. Youthful organdy collars and cuffs. Also pretty vestee insert of organdy and neat organdy sash. This model has all the lines of fashions selling at much more than Sharood's sale price. Misses' sizes 14 to 20, 32 to 38 bust. Women's sizes 34 to 46. Be sure to state size wanted. Choice of colors. 18E6712, Navy. 18E6713, Copenhagen. 18E6714, Rose. 18E6715, Lavender. Send no money. Pay \$1.98 and postage on arrival.



STATE SIZE

Girls' Dainty Frock of Sheerest Organdy in Popular Color \$1.98

It's seldom that even Sharood finds it possible to offer such an unequalled bargain as this fetchingly beautiful organdy party dress. Trimmed throughout with lace edging, with latest large collar coming over the shoulders, two panels at side and rosette on sash, it represents value that means money saved to you. The panel idea is entirely new and is a style that will dominate many of the season's smartest creations for women. Sizes 8 to 14 years for girls. State size. Order No. 18E6331 for white, No. 18E6332 for blue, No. 18E6333 for rose. Send no money. Pay \$1.98 and postage on arrival for either of the three charming colors.



Women's Soft Kid Strap Slippers \$1.49

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