

MICHIGAN FARMER

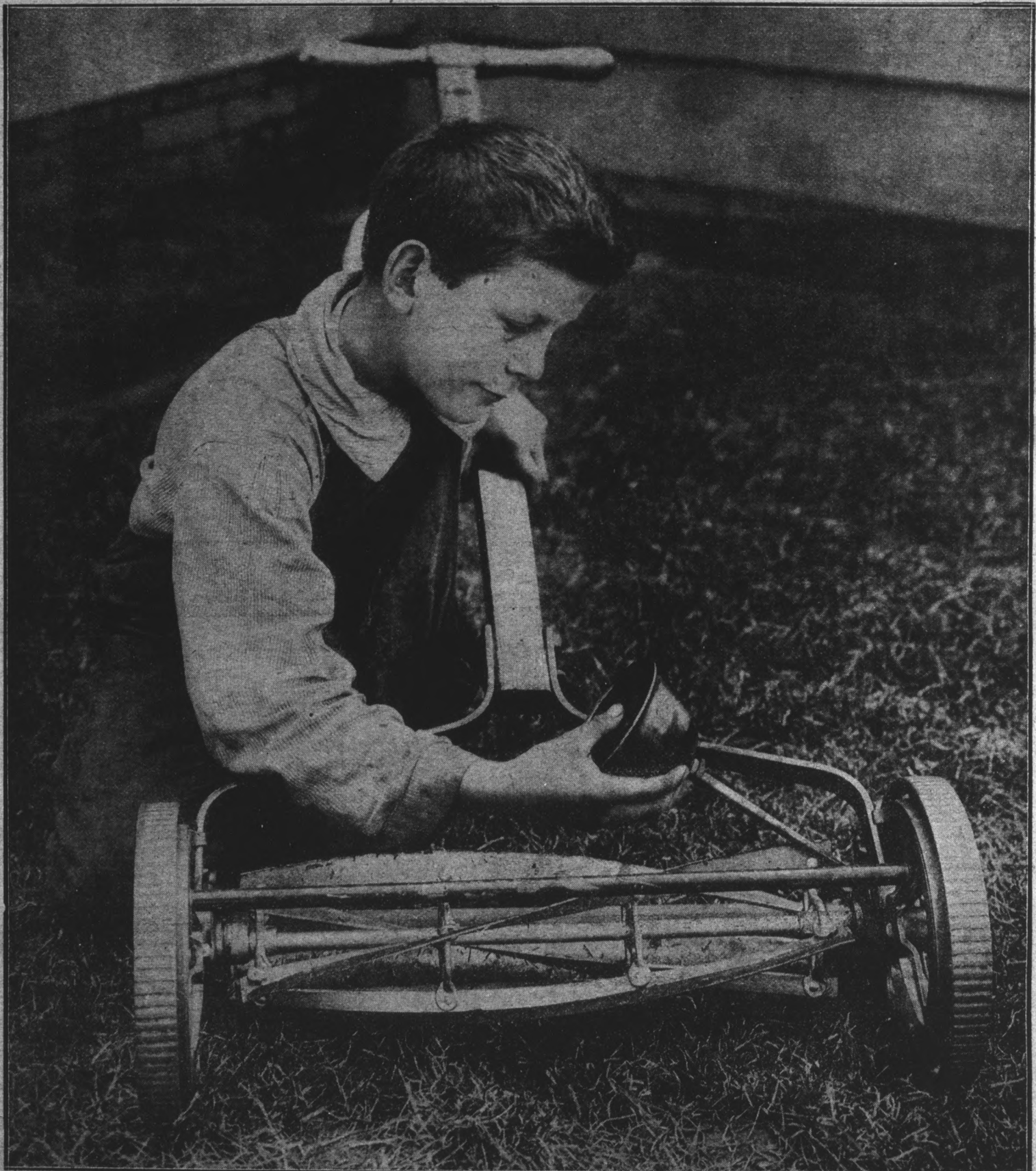
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VOLUME CLX

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DETROIT, APRIL 7, 1923

CURRENT COMMENT

The early planter usually gets the high prices.

Farming is a gamble but efficient methods make it pretty nearly a sure thing.

We are influenced more by emotions than by facts, although the use of facts brings the greater reward.

If your neighbor is a success do not be afraid to copy his successful methods.

Twenty-six letters are the foundation of a great language. Less than twenty-six fundamentals are necessary for big successes.

Cut the Dead Timber

ON a large number of farms "dead timber" is a source of heavy loss and, at a time when all margins are small margins, it often means the elimination of the profits. We use the term "dead timber" not only in a literal sense, but with reference to any article or animal on the farm whatsoever, that has ceased to be productive. These things are either giving a return greater than their cost in the way of growth, increase or service, or they have passed their period of progress, or efficient service and throw the balance on the wrong side of the ledger.

Speaking literally, when the trees in the woodlot begin to show dead tops they are ripe and ready to harvest, and like the wheat, the longer they stand after reaching that stage, the greater the loss. Likewise the plow that refuses longer to function in a creditable manner, should be either put in shape or replaced with a new one. It is poor economy to expend one's time and horsepower and do only half a job. The extra horse that stands in the barn most of the time can quickly "eat his head off," and the cow or the sow that does not give a satisfactory increase, is "dead timber," and should be eliminated. Four or five thousand pounds of milk a year, or four or five pigs per litter, is not enough. It means you are working for the animal instead of the animal working for you.

We believe in more live stock, but we believe more strongly in better live stock, for the average Michigan farm. Altogether too large a proportion of our farm animals are not efficient producers. They are loafers or boarders, or just plain robbers. They are "dead timber" and should be disposed of, to

the best advantage possible, of course, but disposed of somehow. Times are too close these days to permit the small profits possible to be consumed by "dead timber."

Throwing Away Money

Now is a good time to be cautious. We say this in spite of the rather general complaint that people have limited means for "carrying on." Various schemes are being worked to get from the unsuspecting public, especially the farmer, easy money. Here is a letter received only a few days ago from a reader who is more cautious than many others we know:

"Can you give me any information regarding the men that are placing Holstein bulls around Michigan? Is it so that the State Holstein Association is sending these men out?"

"We ought all to use a good bull, better than any one of us could afford to buy alone, I think. That means that neighbors ought to get together, and if these men have the O. K. of the state association, we need them to work in our county. But we certainly don't need any attention from any agents working along the lines of the old commodity stallion idea."

We have taken this matter up with the Michigan Holstein-Friesian Association, and Secretary Norton declares that they "have no connection in any way with any company that is syndicating bulls and never have had any connection with any such company."

The dairy extension division of the Michigan Agricultural College also informs us that the college does not have, nor has it had at any time in the past, any connection with the syndicating of Holsteins or any other breed of bulls.

Very recently one of these companies bought a Holstein bull in Livingston county for two hundred dollars and sold the services of this animal to a group of farmers located not over sixty miles away for several times that amount. We could give several other instances no less startling than this.

The Michigan Agricultural College is prepared to help farmers organize bull associations. The men in charge of this work are eager to go anywhere in the state to assist farmers in getting started. A letter to this office or to the dairy department of the college at East Lansing, will bring this service to your community, and, if possible, an association will be launched without cost to the members other than a reasonable price for the animals needed.

Do not allow a clever salesman to induce you to throw away your money.

Beet Growers Meet

THE annual meeting of the sugar beet growers' association for Michigan was held in Saginaw last Tuesday. In opening the session, President Price gave as the real purpose of the organization the learning of more facts about the business.

This industry, declared A. B. Cook, of Shiawassee county, should stand upon its merits. He described the fifty-fifty contract, which has been adopted by the Owosso Sugar Company, as an eminently fair and sound proposition. He urged farmers to rally to the support of the industry and to show their willingness to cooperate with the manufacturers upon an equitable basis.

Mr. Cook declared that the organization of growers seemed desirable in order to popularize the crop and to work out with the manufacturers satisfactory contracts. He opposed the idea of a militant sugar beet growers' association.

Manager Ackerman urged a conservative organization. The time has come, says he, when we must work with, and not against, the sugar factories. We should go to work, and quit fighting. He, too, urged those who were in a position to do so, to undertake the production of beets this year.

Reports indicated that the flat-rate contract of \$7.00 per ton seemed most popular among the farmers. A bonus of forty cents per ton is being offered by most factories where farmers provide their own labor. In one or two instances it was shown that the fifty-fifty contract was meeting with more favor than the flat-rate contract.

President Pitcairn, of the Owosso Sugar Company, hoped that farmers in sufficient number would accept the fifty-fifty contract to give it a real try-out. He believes there should be the closest cooperation between the manufacturers and the growers.

"We need farm organizations," was the plea of Professor Tenant, of the M. A. C. All farm organizations cannot be built after the same plan. Problems determine the policy to be pursued. Financing these associations is one of the difficult matters to provide for. The method adopted by the Milk Producers' Association was suggested as a possible way to provide funds for beet growers' organization.

Commercial farm organizations should be built along commodity lines. Mr. Tenant explained the plan which is now being worked out in Michigan. Already the Elevator Exchange is successfully operating, as is also the Potato Growers' Exchange, the Fruit Growers' Exchange, the Milk Producers' Association, and the Live Stock Shippers' Exchange. He urged that the beet growers get their association upon a substantial basis and affiliate with these other commodity institutions.

The election of officers resulted in the choice of the following directors for the coming year: W. H. Dowley, Tuscola county; L. W. Oviat, Bay county; William Garber, Sanilac county; A. B. Cook, Shiawassee county; Burt Bellinger, Gratiot county; Mr. Harriett, Clinton county; Manley Hitchins, St. Clair county; Mr. Helise, Midland county; T. C. Price, Saginaw county; G. Gettel, Huron county; Geo. R. Wheeler, Isabella county.

Getting Started

YOU know my Oughto? Well, I got it yet. It's been what you call hibernatin' in the garage all winter. It's gettin' about time for it to come out and fly around some this summer.

It looks kinda cold, dusty and innocent, and the tires look kinda flat. But I dusted her up and put air in the tires and gas in the tank. Then she looked like she would go. But she didn't. The commencer wouldn't start. The garage man says my battery was run down and needed chargin'.

I used to think batteries was some-thin' about war, but since I've been takin' my evenin's recreashun in readin' about batteries, I know it's got somethin' to do with startin'. It is interestin' readin', speshully if you kin use imaginashun.

Now, maybe it seems funny that a battery should run down doin' nothin', but that is just what it does. It is just like folks. The less you do the less you kin do, and you get so you are what the doctors call completely run down.

To keep yourself in good shape you gotta use yourself. Just like batteries, when you are workin' you are chargin' yourself with more energy so you kin do more work. The men what is the busiest are the ones what is always willin' to take on more work, and they start off just like biff-bang.

Now, like batteries, you kin overcharge yourself with ambishun and the desire to work, and maybe burn yourself out, like they say about batteries. But such things ain't common. Those what think they is overworkin' is maybe overdoin' somethin' else what interferes with their workin' ability.

But its common for folks to get run down from not workin' enough. They get so run down that their self-starters don't work no more, and other folks has gotta start them to doin' things. The only way them folks kin be self-starters again is to have somebody what is ambishus crank them so they kin get started. And if they keep runnin' long enough they get so charged with energy that they get to be self-starters again.

Every little while I get lazy and kinda run down like. Then Sophie gives me a crank and I get a goin' for a while, maybe for quite a while.

I'm just like my Oughto. I look all right and my tires is good, but I kinda think Sophie will have to do quite a little crankin', to get me started this spring, 'cause my batteries is run down.

HY SYCKLE.

Income Versus Property Tax

Bill Now Before Legislature Would Substitute
Income Tax for Property Tax

THE state legislature is giving serious consideration to House Bill No. 577, which provides for a four per cent income tax, as a substitute for the old property tax as a means of raising funds for state purposes.

This bill was introduced by Representative Byrum, of Ingham county. It provides for an adequate income to care for normal state expenses providing a gasoline tax or some other means of securing funds to carry the bulk of expenses for road building, is adopted.

The principle of this measure is equitable. It makes net income the basis for tax payment. Reasonable exemptions are allowed. These exemptions conform closely to those adopted in the federal income tax law. All persons or corporations will be taxed four per cent of this net income.

On another page this bill is discussed at length. Every farmer should read this discussion. The bill, if it becomes law, means lighter state taxes for many tillers of the soil who have been carrying an undue proportion of state expenses during recent years.

The sentiment of readers should immediately be wired or mailed to their senators and representatives at Lansing. The law makers will appreciate knowing how you stand and you will be doing your duty on a matter of real public moment. This is the reader's opportunity to help in placing the cost of running the state upon a more equitable basis.

Better Equipment for Our Chick Crop

Handy Contrivances Which Make Work Easier

By C. M. Ferguson,

Manager Michigan Egg Laying Contest

THE growing problem in the management of our farm poultry is the renewal of the farm laying flock. It is common knowledge that a pullet will lay more eggs than a yearling or two-year-old hen. We also know, that as a money maker, the pullet is producing eggs during the period of high prices while the older hens are at a low ebb in production, due to moult. The returns from the farm flock comes very largely from egg sales and the more we can put on the market during the months of November, December, January and February, the greater our receipts are going to be.

Knowing these factors to exist we must endeavor to have a relatively large proportion of our laying flock consisting of pullets. These must be hatched in time and so raised and brought into maturity that they will get into production some time during September or October. This presents the factors of time of hatching, rate of maturity, and rearing methods.

Early hatched chicks are essential for early production. The heavy breeds usually come into production when six months of age, the lighter breeds a little earlier. We must plan our hatches with this fact in mind. It is possible to rush pullets into production by heavy protein feeding but it tends to bring them into laying before they have attained their full growth, resulting in small eggs and a greater danger of winter moult.

The broody hen has become a back number for economical production of chicks. Careful culling is rapidly eliminating the broody character from our farm flocks. Hens which insist on going repeatedly broody are generally poor layers due to their frequent vacations. Culling for production is rapidly reducing the number of hens

available for setting. The uncertainty of having enough hens broody at one time to have the chicks of the same age results in the growing flock. The labor in caring for several different small broods is also found greater than where the chicks are all one age. We then begin to look for a way out and the following solutions present themselves:

- (a) The use of an incubator.
- (b) The purchase of baby chicks.
- (c) The purchase of ten-weeks-old pullets.

The farmer who is breeding and developing his own flock will have to have some means of incubation which leaves him with a choice of operating his own machine or getting space in a community hatchery. The smaller incubators have now reached a state of perfection where they can be relied on and operated very successfully by an amateur. It pays to buy a good reliable, well-tried machine even if the initial cost is a little greater.

In the purchase of baby chicks one relies entirely on the other fellow's ability as a breeder. Where chicks of good quality can be procured it eliminates the difficulties of hatching, reduces the labor of raising the chicks since they can be handled in broods of from 300 to 400 instead of fifteen to twenty with old hens. The growing interest in the baby chick business is far-reaching and one now finds many farmers buying chicks by parcel post in preference to attempting to breed and incubate their own. One must not, however, buy indiscriminately, knowing nothing of the source or origin of the stock. There are on the market thousands of cheap chicks which are hatched from inferior stock and sold at a greatly reduced price. This price is made possible by the fact that the flocks from which these eggs are taken are not developed and culled to a point where a better price can be demanded. Thousands of this grade go out to our farms every year and re-

sult in no improvement in the fecundity of our flocks.

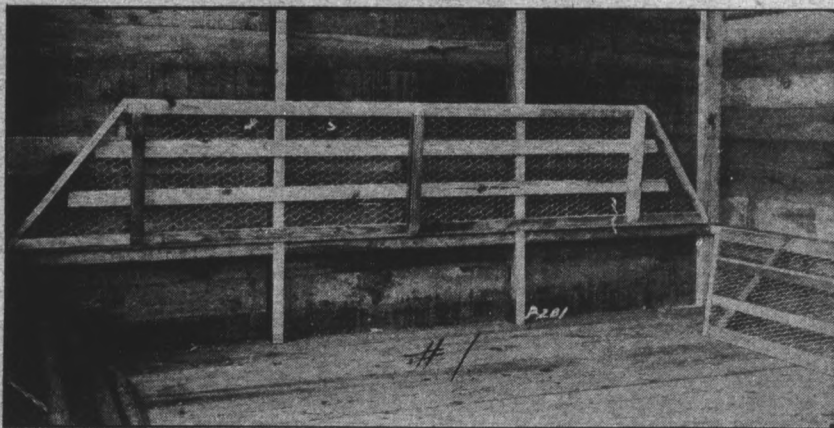
We are fortunate in having in this state a large number of established breeders of high-producing strains of some of our more popular breeds where reliable stock can be secured. We also are fortunate in having a limited amount of bacillary white diarrhoea in Michigan flocks. Many seem to be of the opinion that stock purchased in some distant state or city is going to be superior to home products which is not always the case. Egg-laying contest reports are a good guide to follow in selecting a place to buy chicks. Look up a breeder near home whose plant you can see or learn something definite about, and follow his entry in the contest or the performance of his home flock.

The college extension service in poultry is now establishing a system of demonstration farm flocks. These flocks will be headed by pedigreed college cockerels and culled each season by the extension specialist. These will make an excellent source of good stock for the community in which they are located.

The third method of renewing the farm flock is the purchase of pullets. Several of the larger farms are now making a specialty of growing chicks until they are eight or ten weeks of age, marketing the broilers and selling the pullets out for laying stock. This offers the line of least resistance. The pullets arrive after they are through the brooding process and old enough to put out on range with little care. The cash outlay is, of necessity, larger with this method but offers the busy farmer's wife a very convenient method of renewing her laying flock.

Solution of Brooder Difficulties.

When chicks were raised in lots of fifteen to twenty in late spring and all (Continued on page 504).



No. 1.—A Good Arrangement to Prevent Crowding and Encourage Roosting.

Some Misunderstandings Cleared Up

Potato Growers Save Money by Doing Business Through Their Co-ops

By H. L. Barnum

A POTATO grower recently remarked to the writer that it was not the low prices during seasons like this which hurt him most, but that he did hate to take less than his stuff was really worth just because some sharp buyer caught him hard-up and ignorant of the market situation.

I asked him if he didn't consider a membership in a cooperative marketing association a good means of insuring fair prices for his potatoes at all times, and he replied that he had just about come to that conclusion and intended to join a local organization in the near future. Finding him in this receptive state of mind, I set about to confirm him in his good resolution.

"But how do you explain," he asked, "why it is necessary to take out so much handling charge when a man sells potatoes through the co-ops?"

"Well," I replied, "part of what you think of as a handling charge is a real service charge. That is, it represents the actual cost of handling, sacking and selling. In most cases, also, part of the deduction is used to create a much needed and much used surplus or working capital. Part of it, too, often goes into a building fund and is not a handling charge at all but is, instead, a real investment by the grower. As a matter of fact, as recent developments have shown, you can easily pay all such deductions and still be money ahead."

"But, ordinarily," he said, "the re-

turns through the local marketing association are only a little, if any, better than the buyers offer, and they pay cash."

"At points where independent buyers and co-ops are both operating, that has been true for most of this shipping season," I admitted. "But on the word of one of the largest independent potato dealers in the state, who in December called up the sales manager of

the Michigan Potato Growers' Exchange, the co-ops were returning more to their members than the market would warrant. In other words, the independent buyer could not continue to meet the co-op returns without losing money, or, at least, sacrificing his profits. After March 1, however, when the market made a sudden advance, the speculating buyers, by taking advantage of the average farm-

er's ignorance of market changes, made back thousands of dollars which they had lost earlier in the season in their attempts to discredit the cooperatives.

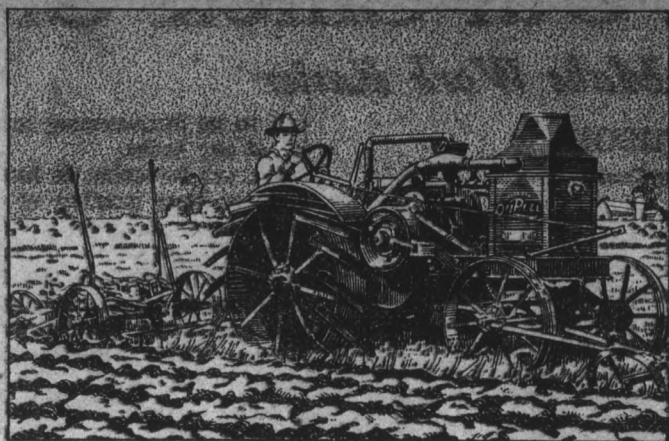
"Regarding the cash purchases by dealers, this is a much less serious difference between cash buyers and the co-ops than many folks imagine. In the first place, most of the farmers' marketing organizations are now in a position to make an advance payment on goods offered for pooling; and, when such is not the case, the premium secured is generally sufficient to warrant waiting for returns.

Thousands Saved on Rising Market.

"On a rising market the difference between cooperative marketing and the old system is most strikingly apparent. From March 1 to March 15, 152 cars of potatoes were sold by the Michigan Potato Growers' Exchange. Fifty-five of these cars were loaded with Chief Petoskey trade-marked sacks and ninety-seven with plain sacks. During this period the average price paid in western Michigan by the cash buyers was 31.5 cents per hundred. The net returns to farmer members of the co-ops, however, were fifty-two cents per hundred on plain sacks and sixty cents per hundred for Chiefs. The amount thus saved for cooperating potato growers during this short period, with a rising market, was \$19, (Continued on page 488).



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Washington Letter

By Senator Capper

A STATISTICAL report just issued from the department of agriculture shows that the farmer's dollars will buy only sixty-seven cents worth of other men's goods or labor. He must pay them \$1.33 for every dollar's worth he needs, and sell them \$1.33 worth for every one hundred cents they give him.

If our captains of industry and our financial giants in Wall Street had to do business on that basis what a howl would go up. They couldn't stand it. Yet our farmers have come through two years of this and worse.

The farmer's purchasing power is greater for the moment than it has been in the last two and one-half years. But up go the prices of steel, oil, sugar, wool, clothing, leather, shoes, building materials and all other city-made products. These are rising much faster than farm products. The more these two groups of prices get out of balance, the more unstable will business conditions become. The general level of prices, the department reports, has risen more than eleven per cent comparing prices in February with those of a year ago.

Unless farm prices shall manifest a corresponding advance in price we shall be kidding ourselves if we consider the present burst of activity in industrial centers as anything more than a boom.

If the country really has started on the up-grade, as might reasonably be expected after the two-year drop, with "no bottom" for farm products, prices for farm stuffs must soon give confirmatory evidence of it. That is the real touchstone for whatever brand of prosperity comes along. The farmer's buying power is the touchstone. Until it increases instead of shrinks the brakes are on.

When General Prosperity Will Result.

James A. Patten, the famous grain operator, rises to say a true word. There will be no general prosperity in the United States, says Mr. Patten, until the farmer's purchasing power is raised by a return to a proper relation between the price of farm products and the price of the commodities the farmer needs to buy.

We can't doubt the truth of such a statement. The encouraging thing is that Patten believes that it is coming, that the working of economic law toward a proper price relationship already is under way.

Sugarless Days and the Law.

The people have two weapons with which to fight the sugar pirates. One weapon is in the people own hands. It is to do now for a short season what they did during the war time—declare "sugarless days." It was a war measure. It can be invoked again in a people's war against profiteers. If the public is to be freed of this sort of exploitation, an example must be made. Profiteering must be made deadly dangerous to profiteers. If the people will use this weapon they will soon see profiteers caught in their own dead-fall, but as long as the people tamely submit, the Belshazzar's feast will go on. When this one is over, the gluttons will flock for another. The profiteer's appetite is insatiable. It must be curbed. The way to curb a

profiteer is to attack his pocketbook.

The other weapon is the law. Teach the profiteer that the law isn't afraid of his money. There is ample law to protect the public from exploitation and conspiracy if enforced. The President, Attorney-General Daugherty and Secretary Hoover propose to probe the sugar conspiracy. This is commendable. The investigation should be searching and fearless. Profiteers must be taught that equality before the law knows no distinction between big and little offenders; that a Dunn and Bradstreet rating does not confer immunity from the penalties of the law. Exploitation of the millions by the few, is one of the real problems that confront us now.

Government Pay Roll Cut.

In making estimates of the Harding administration thus far, chalk this down in its favor. In two years 102,101 government employees were separated from the pay roll. The total pay roll is now less than half a million. During this reduction period the post office department put on 9,100 additional employees. Volume of business to be handled governs the post office department pay roll. Increase in its personnel means an increased business. This means increased prosperity in the country. Such increases are welcome. Thank the budget system for these reductions. Thank the Harding administration for the budget system. Reduction in pay roll means a little reduction in taxes. Every little reduction in taxes means a little less for the people to pay. There can't be too many of these little things.

Uncle Sam's Tariff Income.

Two million dollars a day is the income Uncle Sam gets from the tariff act of the sixty-seventh congress. This is the share importers who ship goods into this country from foreign parts pay toward the expenses of government. Whatever share they pay means that much less for taxpayers to pay. Take no stock in the talk that folk who buy goods pay this tariff tax. Compare prices paid for goods now with prices paid during the last administration when there was no protective tariff. If high prices for goods come, lay it to the right cause—profiteering—and not to the tariff. A tariff simply makes goods manufactured by cheap foreign labor cost the same in this country by high paid American labor. The proceeds help pay the expense of government, and every dollar paid this way means a dollar less to be ponied up by taxpayers.

Arthur Capper

WASHINGTON, D. C.

USE FORTY POUNDS OF BEANS PER ACRE.

RESULTS obtained in experimental work at M. A. C., using Robust beans, indicate that most profitable returns with beans are obtained when forty pounds of seed per acre were used. Owing to the bushy nature of the Robust variety, slightly less seed might be used than with the ordinary varieties.—Mills.



First Season with Strawberries

Start Right to Insure Good Production

By Alton M. Porter

THE time that most strawberry plants are set depends upon the amount of moisture in the soil, and in this state the early spring seems to be the most ideal for transplanting strawberry plants. Immediately after strawberry plants are set we should start cultivation and continue a thorough cultivation throughout the season, in order to conserve moisture and keep out the weeds. To do this, the fields should be gone over at least every week or ten days with a cultivator and several times during the season with hoes.

The soil should be kept very mellow so when the runners start to grow

season has proved to be a very profitable one.

After the plants begin to send out runners the width of the row is determined by the width of the strip that is kept cultivated. Thorough cultivation will prevent the runners from rooting and will turn them back towards the row, and in this way the width of the row is controlled by cultivation. The density of the plants in the row is controlled by cutting out with a hoe all the plants that are not needed. This process of thinning out the plants has an effect on improving the quality of the berries the bed is going to produce the following season.



The Result of Good Cultural Methods.

they will take root readily. If a drought should occur during the time the runners are forming, it is then very essential that the moisture in the soils should be conserved and the soil kept very mellow by frequent cultivations. The better the care the bed receives during a drought or dry spell the better the next year's crop of strawberries will be both in quantity and quality.

Cultivation should be continued till the ground freezes in the fall. By doing this one will be able to kill weeds and grass which otherwise would be ready to start quickly in the spring and would take a great deal of the moisture that is needed by the strawberry plants at that time. Weeds and grass also interfere a great deal with the pollination of the berries, a large percentage of nubbins and imperfect berries being found in fields where there is much weed growth. Keeping weeds and grass out of the strawberry bed during the first season is the secret of producing large, well-developed strawberries the second season, and these are what make the strawberry patch a profitable crop on the farm. In weedy fields it is also much more difficult to pick the berries without injuring them. In Michigan late fall cultivation of the strawberry bed is considered as one of the most important factors in strawberry culture, and in many localities it is considered as one of the essentials to profitable strawberry culture.

After the plants are set they frequently send out flower stems which, under favorable conditions, may mature a few berries. The development of a crop of fruit on such fruiting stems is a severe drain on the plants which have not yet got fully established in the ground. This may be the cause of many of the young tender plants dying during a season of drought, and it will cause the plants to be less vigorous and very few runners will be sent out during the first season. Because of this many growers pick off the blossoms as they appear. This practice is a profitable one where strawberries are grown under very intensive culture, and even in the field culture of strawberries this method of picking the blossoms the first

During the fall of the first season after you have completed the last cultivation of the strawberry bed, a thorough coating of straw to serve as a mulch should be spread on the strawberry patch. This mulch is very useful in conserving moisture, keeping the berries clean, and in keeping down the weeds in the strawberry patch. There are several cases this spring where there were heavy showers of rain which completely covered the strawberries with sand and grit and spoiled them for sale to private families. These strawberries could be kept from getting so badly covered with grit and sand if they had been properly covered with a mulch last fall. There were also many cases in Michigan this season where the dry weather hurt the strawberry patches a great deal by reducing the size and quantity of the berries, and these could have been prevented by properly mulching the strawberry patches last fall.

The straw is scattered over the fields in the fall and in the spring the plants will grow up through it, but in most cases some will have to be raked off into the middle of the rows. The use of the mulch may retard the ripening season of the berries, but this delay is slight and seldom of importance to the strawberry grower.

GOOD CARE BRINGS PROFITS.

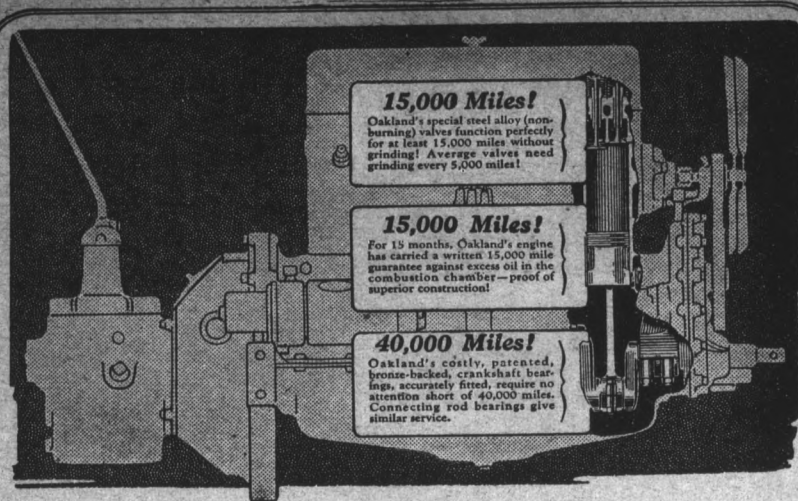
IN spite of the fact that most of the fruit on about three-quarters of the orchard was killed by a freeze, W. J. Edgerton, of Barnesville, Ohio, made more money than he often did in good years. The reason for this fortunate experience is that he closely followed the up-to-date standard methods of taking care of the orchard. One of the things he did was to keep a complete cost account. Here is what his account showed at the end of the year.

Eight hundred eighty-five bushels of apples, mainly from fifty trees, which sold net for \$852.50.

Expenses, including his own labor and twenty per cent depreciation on his new spray rig, \$392.65.

Net profit, \$459.85.

His records show that he applied five pounds of nitrate and acid phosphate to the trees, mowed the orchard twice, sprayed five times, and paid \$73.75 for harvesting labor.



The Inside Reason for Oakland Success—Known Mileage

These Definite Advantages Account for the Increasing Number of Oaklands You Meet Every Day

THE SUCCESS of a motor car depends upon the success of its engine! If ever a manufacturer set about deliberately to build the finest light-six engine that could be built—Oakland did!

Materials were chosen with scrupulous care! Special steel alloys were employed; costly bronze-backed, patented bearings were chosen; cylinders were honed to the smoothness of glass; special design, two-piece piston rings were employed—and the workmanship was checked and re-checked to the smallest dimensions.

Because of this, Oakland is able to offer you a car with *known mileage*, free from trouble or expense. Oakland knows, for instance, that in addition to the remarkable mileages given above, an Oakland will average from 20 to 25 miles per gallon of gas and 15,000 to 25,000 miles per set of tires.

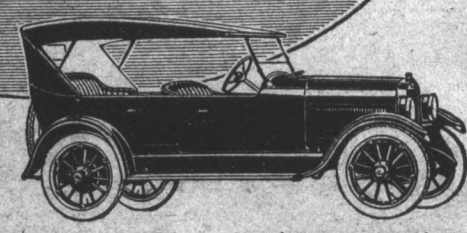
Before you buy a car this spring, compare the Oakland with any other car. You will understand why so many careful buyers have convinced themselves that the Oakland Six offers more for the dollar. And remember—only a few dollars down, with small monthly payments—buys one of these splendid cars!

OAKLAND MOTOR CAR COMPANY, PONTIAC, MICH.
Division of General Motors Corporation



Oakland "6"

Roadster . . . \$ 975
Sport Roadster 1145
Sport Touring 1165
Coupe for two 1185
Coupe for five 1445
Sedan . . . 1545
All Prices F. O. B.
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Touring Car \$995



Locks 50 Cows Instead Of One

2 to 50 West Bend Automatic Swinging Stanchions. The entire row of cows can be locked up or released instantly by one throw of the lever. Cow stops are operated at same time, and when set, guide cow into the stanchion. Every user says it's the greatest idea ever brought out in modern barn equipment. You certainly want it in your barn. Write today for catalog showing complete line of West Bend Barn Equipment.

WEST BEND EQUIPMENT CO., 280 So. Water St., West Bend, Wis.

West Bend

BARN EQUIPMENT

West Bend Automatic Stanchions equipped with our wonderful locking-releasing lever save you time and labor—and insure safety in locking up or releasing the cows, yet you pay no more for West Bend equipment than for ordinary stanchions that must be opened and closed singly by hand. The West Bend lever controls from 2 to 50 cows at once.

What to Eat and Why

A Natural Supply of Vitamin

THE word "Vitamin" is new, but the thing itself is as old as the human race. It is the energizing, vitalizing, growth-producing element in the right food. Its absence is a serious fault of the wrong food. When the food is right, there is no need to go to the drug store for Vitamin.

Grape-Nuts, the famous ready-to-eat cereal, supplies the natural Vitamin from the wheat, and a further supply is included in the cream or milk with which Grape-Nuts is eaten.

Grape-Nuts is delightfully crisp and appetizing, with a flavor which happily suggests the wholesome, health-building goodness which the food contains. Phosphorus and iron, as well as Vitamin, with a bran content to stimulate intestinal action, are supplied by Grape-Nuts. Many of our modern, "refined" foods lack these vitally necessary elements.

Grape-Nuts digests easily and is assimilated quickly, and is splendidly nourishing and energizing. You'll find better health and fitness, in the natural way, with Grape-Nuts as a regular part of your diet.

There's genuine economy in Grape-Nuts—many servings of this exceptionally nourishing food to the package. At your grocer's—ready to serve.



Grape-Nuts
Made of Wheat and Flax
Postum Cereal Company, Inc.
Battle Creek, Mich., U.S.A.
A FOOD
Containing the natural nutritive elements of these
field grains thoroughly and scientifically broken
ECONOMY

Grape-Nuts
THE BODY BUILDER
"There's a Reason"

Made by Postum Cereal Co., Inc.
Battle Creek, Michigan

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

For Sale Senator Dunlap and Gibson Strawberry plants \$3.50 per thousand. E. S. SWANSON, R. 2, Paw Paw, Mich.



What's the difference
between a House
and a Home?

In winter, some people just exist in a house; others live in a home. In a house the occupants are snuggling around a stove trying to keep warm. In a home there is warmth in every room, where there is a



Red Cross Pipeless Furnace

Constant circulation of pure, warm air throughout the house.

Any fuel. A size and style for every home. Fire pots with sides straight up and down. Deep cup-joints thoroughly cemented and gas tight.

Write for color catalogue and free plan sheet.

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WRIGHT'S BIAS FOLD TAPE

for prettier and quicker home sewing. Made in 13 colors of fast-color percales and 6 colors of fine taffeta silk. Also in black, white and fancy materials, and 2 grades sheer lawn, 9 colors.

Sold at notion counters in the best stores

Send 10 cents for this helpful book and a 3-yard trial piece of tape in fast color percale in any one of the following colors: Gray, Pink, Light Blue, Brown, Reseda, Navy, Lavender, Lilac color, Old Rose, Alice Blue, Red, Black, Yellow.

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Orange N.J.



Taxes, and Still More Taxes

Is a State Income Tax a Solution?

(The purpose of this article is to provide a concise statement regarding the application of the personal income tax to the present condition of the state treasury, as well as the economic conditions of the people of the state, and the ability of general property owners to bear the state and local tax burdens).

JUST and fair taxes and general governmental economy are the two big problems confronting our statesmen and thinking citizens today. Representative Warren D. Byrum, of Leslie, has proposed a state income tax which he believes will be at least a partial solution of both of these perplexing problems. His bill has been receiving careful consideration in the general taxation committee of the house.

In order to see just how an income tax would affect taxation and economy in Michigan, let us take a bird's-eye view of the state-wide tax situation.

The total taxes paid by the people of Michigan levied on the general property of the state for state, county, city, township, road, schools and drain purposes have increased as follows:

	Total Tax.	State Tax.
1901	\$ 23,350,000	\$ 3,836,000
1913	50,570,000	8,591,000
1921	158,389,000	20,452,000

During the same period the assessed valuation of the general property of the state bearing this tax has increased as follows:

	Real Estate.	Personal Property.	Total.
1901	\$1,020,000,000	\$ 315,141,000	\$1,335,000,000
1913	1,855,000,000	490,830,000	2,346,000,000
1921	4,295,000,000	1,188,786,000	5,484,000,000

The increase in the assessed valuation of the property bearing these taxes which, as shown above in the first table, were \$23,350,000 in 1901; \$50,570,000 in 1913, and \$158,389,000 in 1921, has only been from \$1,335,000,000 in 1901; \$2,346,000,000 in 1913, to \$5,484,000,000 in 1921.

On account of the fact that these general property taxes have increased about 700 per cent from 1901 to 1921, and the assessed valuation of the property bearing these taxes has increased only about 410 per cent, the average rate of taxation in the state for state and local governments has necessarily increased from \$17.49 per thousand in 1901, to \$21.56 per thousand in 1913, and \$28.88 per thousand in 1921.

Many Can't Pay Their Taxes.

In 1921 the real estate of Michigan paid seventy-nine per cent of the taxes, state and local, except for the corporation privileges fees paid by the corporations of five and one-half millions and the automobile licenses of three and one-half millions. Considering these, the people of the state paid \$158,000,000 and \$9,000,000, or \$167,000,000 in taxes, and real estate paid \$124,032,000 of this, or about seventy-four per cent of the total.

This burden on real estate is too great. It is alarming to note the very serious result in 1921, when the home owners, farmers and others owning \$449,500,000 worth of real estate in Michigan, or practically one-tenth of the real estate in the state, were unable to pay their taxes and they were returned as delinquent.

The total taxes returned delinquent were \$10,036,000. Unquestionably there were nearly twice as many who had to borrow money at six or seven per cent to pay their taxes rather than suffer the heavy penalty of three-quarters per cent per month while delinquent.

Public Debts Increase.

Despite this constant increase in tax levies which is causing a corresponding increase in the number of property owners unable to pay their taxes,

our state and local governments are continually getting deeper and deeper in debt.

This is clearly shown by the following table of outstanding state, county, city and village, and school bonds:

	1911.	1921.
State	None.	\$ 65,000,000
County	3,306,417	26,746,994
City	28,945,533	161,199,198
School	5,565,807	51,250,869
Total	\$36,818,757	\$304,197,061

This, of course, does not include Covert, road, drainage and other district bonds which would make this increase much larger, but it is very plain to be seen that but for this increase of outstanding bonded indebtedness of 830 per cent in ten years, the tax rate on general property would have been much higher.

To make the situation real plain, let's restate it in a little different way. Each man, woman and child paid in general property taxes in Michigan, \$10 in 1901; \$12.71 in 1911, and \$43.02 in 1921, and over and above this for each man, woman and child there was an increase in the bonded indebtedness outstanding from \$13.46 in 1911 to \$82.95 in 1921.

Some Remedy Is Needed.

In view of the startling facts above disclosed it is apparent that some relief must be secured for general property or there will be little incentive indeed for a person to acquire owner-

ship of a farm or home in Michigan.

A personal income tax to displace entirely the general property tax for state purposes would help a little in a direct way. It is probable that its indirect benefits would be even greater. And now let us focus our attention specifically on Representative Byrum's pending measure.

House Bill No. 377, which he has introduced to carry out these purposes, proposes a personal income tax of four per cent on all individual incomes from all sources. It will yield a revenue to the state treasury of from \$14,000,000 to \$16,000,000 per year. This, with \$5,500,000 to \$8,000,000 from the corporation privilege fee provided by the 1921 legislature, and the \$4,000,000 received annually from the various institutions and departments of the state would make receipts into the general fund of the state of from \$23,000,000 to \$28,000,000 annually, depending very largely upon whether the corporation fee was left at 3.3½ mills or not, and whether the 1923 legislature will make the maximum fee which can be paid by any corporation, \$50,000 or raise the limit to \$500,000 or above.

Twenty-eight million dollars should be ample receipts to support the state government, excepting the state highway department. It seems to be generally agreed by all that the automobiles and trucks of the state should support the activities of the state highway department, and the state highway program without levying on the general property of the state for this purpose.

Income Tax Revenue Shown.

To determine what a personal income tax of four per cent would yield we must turn to the reports of the United States Internal Revenue Department. In 1918, 135,349 persons had a personal net income of 483,000,000, and were allowed exemptions of \$248,000,000, leaving a taxable personal income of \$235,000,000, which at four per cent would yield \$9,400,000.

In 1919, 181,662 persons had a personal income of \$753,000,000 and were (Continued on page 484).

PLAN TO PLANT TREES.

ONE of the finest contributions to the community in which we live is the proper ornamentation of our premises with trees. A tree invariably impresses itself as the supreme tribute. The humblest cottage surrounded by stately trees gives out to the passing world the beneficent influence of a pure home life.

Dates have been set in the various states for the spring planting of trees. In Michigan these dates are from April 27 to May 4. Where trees must be ordered, it is none too early to arrange for this event. Every member of the family should be interested and plan to take part in tree-planting this year.

BUYERS ARE PAYING PREMIUM PRICES FOR POTATOES.

LATELY the independent potato buyers have advanced the price to growers to \$1.00 and \$1.10 per hundredweight. This raise in price is due to the fact that these independent buyers wish to make a showing to the growers in contrast with the cooperative selling organizations. In most cases where cooperative efforts are proving successful, the old-line buyers use tactics of this sort, and, of course, the farmer who is not a member of the association gains thereby. However, these premium prices would not be effective if it were not for the competition independent buyers are getting from the associations, and very rarely are they effective for long periods, as these buyers cannot afford to pay for a long time higher prices than the market warrants.

LIVE STOCK FARMERS BEAT GRAIN GROWERS.

IN Shelby county, Ohio, an investigation was made of the different types of farming, and the records obtained show that live stock farmers made more money than grain growers.

The net income above expenses on grain farms averaged \$1,446 on an average investment of \$28,000. For the live stock farms the capitalization was smaller, as the farms were not as large, but the average net income above expenses was \$1,565.

If these farmers were allowed an average hired man's wage for their labor, not considering the value of the house rent and of the products consumed by the family, totaling around \$700 a year, then grain farmers netted 3.3 per cent on the capital invested, while the live stock men netted 5.5 per cent.

From these figures it is apparent that the additional live stock farming business enables one to utilize waste products and waste labor and thus materially increases profit.

CERTIFIED SEED SELLING.

MICHIGAN certified seed has gained a good reputation in many of the eastern states, principally Pennsylvania and Ohio. This year over one hundred fifty cars of Michigan certified potatoes will go to Pennsylvania for planting purposes, and lately Ohio placed a single order for thirty cars. Within the state the farm bureau has orders for over fifty cars. Orders for seed potatoes are constantly coming in and it will be only a short time before the 230 cars of certified stock will be sold.

THE PRIMARY SCHOOL FUND.

A BILL of unusual interest is being sponsored by Representative Meggison. He has introduced what is probably the most important piece of school legislation to appear in many a

session. Braving the storm of protest which falls on a person's head who disturbs any time-honored institution, he proposes to revise the method of distributing the state's primary school interest fund.

At present, school districts receive aid directly in proportion to the school census, regardless of attendance or the ability of the school district to support its educational institutions.

The proposed method would apportion the funds directly in proportion to the product of the school census and attendance and inversely as the equalized assessed valuation of the district. Passage of the bill would be a boon to the poorer and more sparsely settled districts of the state.

\$24.95 ON TRIAL
Upward
American
FULLY GUARANTEED
CREAM SEPARATOR

A SOLID PROPOSITION to send new, well made, easy running, perfect skimming separator for \$24.95. Closely skims warm or cold milk. Makes heavy or light cream. Different from picture, which illustrates larger capacity machines. See our easy plan of

Monthly Payments
Bowl a sanitary marvel, easily cleaned. Whether dairy is large or small, write for free catalog and monthly payment plan.

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in Silver Fox Ranching. If interested in purchasing unpassed 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 BLACK FOX CO.** Inc. State Bank Bldg., Greenville, Mich.

AGRICULTURAL LIME

The strongest in Ohio.
Free Booklet and Sample upon request.
THE SCIOTO LIME & STONE CO.
DELAWARE, OHIO.

MICHIGAN FARMER
Classified Liners bring results. They cost little. Try one.



More wonderful than the lamp of Aladdin—

A few pieces of Union Carbide dropped into water, and presto! Conveniences heretofore absolutely impossible on the farm become immediately available.

Union Carbide (a product of which pure lime and coke are the basic materials), fed automatically into water by the Colt "Gas Well," brings to the farm the real home comforts of the city. A flood of sunlight in every room of the house at night—and in the barn, where good light is so necessary! This light works magic in the henhouse—makes hens lay more eggs—heats the incubator, too!

And while you're about it, have a lighting plant that will do your cooking, and your ironing, and your water heating. The Colt "Gas Well" will do it—automatically, no machinery—economically—satisfactorily. You buy Union Carbide direct from convenient Union Carbide Warehouses at factory prices.

Decide now, no need to wait
—take a year to pay

Get the magic story of the Colt Carbide "Gas Well," and how Union Carbide Gas has brought convenience and happiness to over 398,000 farm homes. Send the coupon today—NOW.

J. B. COLT COMPANY

DEPT. B-32
30 EAST 42d Street, NEW YORK
Oldest and Largest Manufacturers of Carbide
Lighting-and-Cooking Plants in the World
ESTABLISHED 1891

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COLT
TRADE MARK

MAIL THIS COUPON TODAY

Please supply me without obligation, full facts on the Colt Lighting and Cooking System.

STATE

TOWN

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For Lighting



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Bright Lights
for More Eggs

Now is the Time to Make Sure
You Can Get Your

**A-M-F
SICKLE**
PATENTED

and have it at the start of the mowing season

Don't go through another mowing season with a riveted-up knife, that wastes your time when you're in a hurry. You can't afford to stop mowing and rivet in new sections every time you happen to hit a stone. *Not now* when you can use

**"The Safety Razor
of the Fields"**

and change blades without even taking the knife out of the mower.

The A-M-F Sickle is the most wonderful improvement in mowing equipment in 20 years. Think of being able to change blades in half a minute. Take out a damaged one right away, instead of letting it set up a drag on the machine. Put in new sharp ones—a full set if you need them—and save the grinding for a rainy day. You just can't afford to keep on in the old way.

The factory is shipping carload after carload, day after day—everyone wants the A-M-F Sickle, and wants to buy now to make sure.

**MADE FOR EVERY MAKE
OF MOWER**

The A-M-F Sickle is made for every make of mowing machine, and in all lengths. Dealers everywhere are ready to deliver you yours, right out of stock, if you buy early.

Guaranteed against breakage

Stop in and ask your Dealer Now

American Machine & Foundry Company

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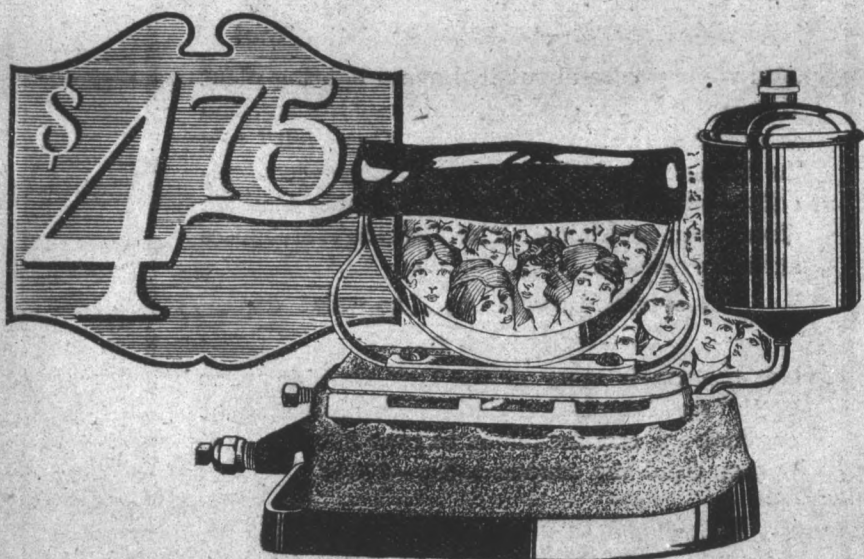


The A-M-F Sickle has instantly renewable blades, rigidly wedge-locked in place until you yourself, pull the locking key.

Blades easily removed by a turn of the wrist, right in the machine.

Truss-built bar—steel head—rust-proofed by the patented Intraloy Process.

If you have a Farm or Farm Land for sale, let the Michigan Farmer find you a buyer through an advertisement in its columns.



**Your Wife Should Have This
Convenient, Economical Iron**

No electric cord or gas tube to bother. Gasoline heated. No stove fire needed. Fuel cost of average ironing less than two cents.

Ready instantly. Automatic gravity feed. No pumping. Graceful lines. Rich nickel plated finish. Over 1,000,000 now in use.

Royal Self Heating Iron Company

507 Wayne St.

BIG PRAIRIE, OHIO

If your General Store or hardware dealer has none in stock we will, ladies, tell you the nearest one who has.

State Capital Comment

By Our Lansing Correspondent

THURSDAY marked another climax in the big gasoline tax fight.

After two and a half hours of fierce debate the senate passed the Warner two-cent gas tax by a nineteen to eleven vote. Seventeen votes were necessary, so the margin was dangerously narrow.

For weeks, and especially during the last few days, the executive branch of the state government had been bringing every possible pressure to bear, directly or indirectly, to kill the gas tax. Now that these efforts have failed, it is up to the governor to do his own vetoing, rather than persuading the senate to do it for him.

Save Farmers From Themselves.

Senator Burney Brower, the governor's senatorial spokesman, led the battle against the gas tax. He stated that the farm organizations and farmers generally didn't know what was good for them, and that it was the governor's purpose to save them from themselves. Farmer members seem inclined to yield to advice from the folks back home rather than from the executive office.

Senator William M. Connelly, chairman of the state highway committee, bore the brunt of the fight for the gas tax. He pointed to the very satisfactory experience of the twenty-five other states that already have a gas tax. No one seemed able to dispute his statements that a gas tax was the only known means of deriving highway funds from drive-away cars and the

constantly increasing number of automobile tourists.

Everyone is expecting the governor's veto. Just what sort of a legislative deadlock will result is hard to predict. For the first time in Governor Groesbeck's administration, the legislature has failed to bow to the wish of the executive. The future promises interesting developments.

Eastern Time Killed.

The proposal to make eastern time standard time in Michigan was defeated in the house by a vote of thirty-seven to fifty-five. Opposition to eastern time was strong among the members from the western part of the state, and the rural districts generally.

Primary Fund Gets Attention.

Probably the biggest public hearing to be held so far this session was devoted to an explanation of the proposed new system of apportioning the primary school interest fund.

Leading educators from all parts of the state appeared in favor of the change. The only opposition to appear was from Detroit. This failed to make much impression, as the arguments advanced did not appear very weighty to the assembled representatives.

More representatives are getting in line daily behind this important piece of school legislation. There is every indication that it will pass. The bill will afford increased assistance to the poorer school districts and distribute the fund more in proportion to the need.

Taxes and Still More Taxes

(Continued from page 482).

allowed \$321,000,000 exemptions, leaving a taxable personal income of \$432,000,000, which at four per cent would yield \$17,280,000.

In 1920, 305,000 persons had a personal income tax of \$996,000,000 and were allowed \$526,000,000 exemptions, leaving a taxable personal income of \$470,000,000, which at four per cent would yield \$18,800,000.

The above figures do not include any incomes of state officials and employees, city officials and employees, public school teachers, etc., all of which would be included in the proposed flat four per cent state income tax. The state pays about \$12,000,000 per year in salaries, and the public schools pay \$29,000,000 to \$30,000,000 per year in salaries to public school teachers.

It might be worthy of note here that House Bill No. 377 includes moneys not only from state, county and city officials, which the federal income tax does not, but that it includes incomes from rents, interest, speculative profits, dividends, salaries, professional services and all sources whatsoever, except salaries of United States officials, United States government bonds and state soldiers' bonus bonds which could not legally be included. This, of course, would help swell the revenue to be derived. It is plain therefore, that this tax would easily yield from \$14,000,000 to \$16,000,000.

Synopsis of House Bill No. 377.

Let us study the details of Representative Byrum's bill. Under its terms a state income tax of four per cent is imposed upon every individual who shall have been a bona fide resident of the state for six months or more during the tax year, upon his entire net income, deducting an exemption of \$1,000 for a single individual and \$2,000 for a married individual, and \$400 additional for each child under eighteen years of age, or for any dependent who is incapable of self-support.

The tax is payable March 1, 1924, on the income for 1923, and annually thereafter, fifteen days before the federal income tax is due, and all state income taxes would be a deduction from the federal income tax.

All moneys received under this tax would go into the general fund of the state to be used for such purposes as the legislature might appropriate.

How it Would Hit the Farmer.

It is apparent that the enactment of the Byrum bill would offer real relief for the farmer taxpayer. In 1921 the general property tax was borne by the various classes of our citizenship as follows:

State corporations paid.....\$5,625,000
Other city property paid..... 7,275,000
Villages of state paid..... 1,550,000
Twps. outside villages paid.. 6,000,000

Total\$20,450,000

These amounts, therefore, represent the division of the relief which would be afforded by a state income tax to replace general property tax for state purposes.

Under present economic conditions the amount paid by farmers under the proposed income tax scheme would be small. If you paid a federal income tax last year you might expect to pay about the same amount for a state income tax under the proposed system. We haven't heard of many farmers who were hit very hard by their income tax.

Thus it is plain to see that the proposed bill would shift the big burden of state support from the farmers, who are already over-taxed, to thousands of individuals who, while probably owning no taxable property, still have healthy incomes, and might well help support the state whose protection they enjoy.

Says Sam: Grins keep the face from sagging.

Spring tonic for mother: a nice new hat.

FOR ROADS IN MICHIGAN.

THE announcement has just been made of the amount of funds available through federal legislation to each of the states of the Union. The appropriations which will come to Michigan have a total of \$1,942,431 for the fiscal year beginning June 30, 1924.

NITROGEN GATHERERS.

OUR attention has been so much directed to the necessity of growing legumes to provide nitrogen for our soil that we have forgotten other helpers which have been serving us faithfully along this same line.

There are present in the soil certain bacteria which live independently of legumes or other host plants, and yet are able to fix nitrogen from the atmosphere. These organisms live free lives probably in association with organic matter from which they derive their energy.

Considerable amounts of nitrogen are stored in the bodies of these organisms and this later becomes available to plants. While these bacteria will live in a soil that is slightly acid, they multiply and function better in a neutral soil and thrive best where the land is slightly alkaline. Hence, the same conditions which promote the growth of legume plants are also helpful in producing these free live-livers.

WOULD DUMP THE STUMPS.

STUMPS are an abomination. They are the height of inefficiency in fields that are being cultivated. Surplus water is another factor in piling up crop costs. "Out with the stumps and away with the water!" This is the slogan of the land-clearing schools now carrying on a most successful season's instruction in our pioneer counties.

Larry Livingston and his able helpers put on a catchy program of motion-pictures and talks on land-clearing and ditching with the whole thing punctuated with "efficiency marks." Eighteen meetings were held at important towns on the Michigan Central and now another series will be run in towns on the D. & M. Over 1,300 farmers attended these eighteen meetings. The enthusiasm is high, and the results are certain to be in proportion. The stressing of dairy husbandry gives permanency and a real broad outlook to the general farming situation in northeastern Michigan.—L.

PLOW LANDS ARE CHEAPER.

VALUES of plow lands have declined twenty-six per cent during the past three years. In 1920, the average for the United States, according to the department of agriculture, dropped from \$90 to \$66.50. Iowa suffered the largest decrease during this period. Her drop amounted to \$66 an acre. Illinois was next with a decline of \$44 an acre and Indiana third with \$37 per acre. The smallest declines were in the diversified farming states, such as Michigan and New York and in the New England states.

TIME TO TALK.

THE first measure to be presented to the coming session of congress by the farm bloc will be the truth-in-fabric bill. The heaviest pressure is being brought to bear by those opposing this measure. The interests of the wool grower, the wool user, the honest merchant and manufacturer of woolen goods, would be protected by the provisions of this bill, for which reason it now seems fair and proper to urge the friends of the measure to talk or write to their congressmen and senators about the bill.

McCormick-Deering THE STANDARDIZED LINE

*An Announcement of Greatest Importance
to Users of Farm Machines*

FARM equipment in the past has been far too complex; there are many unnecessary models, styles, and sizes of machines on the market. The demand for variations has forced extra manufacturing costs and the maintenance of extra cumbersome repair service; all of which has interfered with the efficiency of both makers and users of farm machines.

The Harvester Company has long struggled to reform this tendency which is a relic of the time of hand-made tools, when each buyer saw to it that his own special ideas were carried out. Very definite progress has been made and we now offer McCormick-Deering Farm Equipment as the simple, standardized line, practical and efficient in all details. Note these practical points:

1. In each machine of the McCormick-Deering line every part that can be economically interchanged with similar parts on other machines has been standardized. This will assist you in taking care of emergency repairs, avoiding expensive delays in rush times.

2. Each standardized machine now represents the summed-up total of the Harvester Company's long manufacturing experience. It embodies all features that have proved best in discontinued models. The combination of strong features gives you the best and most practical implement for each purpose. This will very noticeably increase the flexibility and profit of your farming operations.

3. The standardization and simplification of the McCormick-Deering line insures still better repair service than has heretofore been available. With fewer types and styles and sizes of machines, a dealer can carry a more complete stock and a larger quantity of such parts commonly asked for. This cuts your wastes and loss of time to a minimum.

4. Simplified manufacture will inevitably express itself in lowest possible prices and improved quality. It will bring its most gratifying returns to you, however, in the speed and dispatch with which you can do your own repairing by interchanging parts, and by the improved service provided by the dealer when you need it.

The work of standardization is not finished. Much has been done but its benefits will be more and more apparent as the work nears completion. Under this extensive program McCormick-Deering machines will be built better, simpler, and more flexible as we go on.

INTERNATIONAL HARVESTER COMPANY

606 So. Michigan Ave. OF AMERICA CHICAGO, ILL.
(INCORPORATED)

McCORMICK-DEERING STANDARDIZED FARM EQUIPMENT

Grain Binders
Push Machines
Reapers
Mowers
Hay Rakes
Tedders
Hay Loaders
Sweep Rakes and Stackers
Side Rakes and Tedders
Baling Presses
Corn Planters
Listers

Corn Cultivators
Corn Binders
Corn Pickers
Corn Shellers
Ensilage Cutters
Huskers and Shredders
Huskers and Silo Fillers
Beet Seeders
Beet Cultivators
Beet Pullers
Cotton Planters
Grain Drills

Lime Sowers
Broadcast Seeders
Tractor Plows
Walking Plows
Riding Plows
Disk Harrows
Spring-Tooth Harrows
Peg-Tooth Harrows
Tractor Harrows
1 and 2 Horse Cultivators
Dunham Cult-Packers
Kerosene Engines

Kerosene Tractors
Motor Trucks
Cream Separators
Manure Spreaders
Stalk Cutters
Feed Grinders
Stone Burr Mills
Cane Mills
Potato Diggers
Farm Wagons and Trucks
Binder Twine
Repairs

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.

Strawberry Plants, Dunlap \$3.50, Gibson \$4.00, 5 others \$3.00. Varieties, also Raspberries. Prior list free. Fred Stanley, 124 Main St. Bangor, Mich.



Albion steel and wood mills are quiet and powerful. One-third the working parts of any other mill. Only man power bearing subject to wear. This is a selfless, and easily replaceable. Covers by dependable weight without springs. Fits any 4-foot steel tower. Why not choose your clean home now with a good Windmill? This is your chance—F. O. B. Albion. Erect it yourself. Ask your dealer, or write direct to:

Union Steel Products Co. Ltd.
P. O. Box 11, Berlin, Wis.
ALBION, MICHIGAN, U.S.A.

SOY BEANS

Manchu:

Medium Green

Special Hay Mixture

THE JOHNSON SEED FARMS
Growers of Select Farm Seeds
STRYKER, OHIO

"Insist on Certified Seed"

Seed Potatoes for Sale

400 BU. PER ACRE STRAIN

Get a start in a high yielding strain of Russet Rurala grown in Missaukee County. 400 bu. per acre in 1921, and over 325 bu. per acre in 1922. Only 200 bu. left. \$1.50 per bu. f. o. b. Lake City.

HENRY CURTIS

Cadillac, Michigan

PEACH TREES, 20c

Apple Trees 25c each. Postpaid. Send for 1923 Bargain Catalog of Fruit Trees, Plants, Vines, Shrubs. Guaranteed Garden and Flower Seeds. Special prices to large planters. ALLEN NURSERY & SEED HOUSE, Geneva, Ohio.

Strawberry Plants \$3 a 1000 and up. Concord grape vines—finest variety. All state inspected and guaranteed. Free booklet. Westhouser's Nurseries, Sawyer, Michigan.

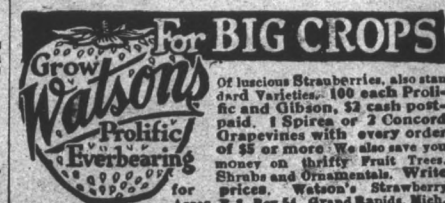
Strawberry, Raspberry Plants

Columbian Purple Caps. Write for prices. GEO. E. OWENS, Box 253, Leslie, Mich.

VICTORY PLANTS

5 butternut trees \$1.00. 5 beautiful Virginia cedars \$1.00. 100 Gibson or Dunlap and 100 Everbearing Strawberry plants for \$2.00. 1000 choice strawberry plants for \$3.50. 25 choice Gladioli bulbs for \$1.00. One Spirea or two Concord grape vines free with every order of \$4.00 or over. 5 Spirea V. H. for \$1.00. 1000 fine Concord grape vines for \$40.00 or \$30.00. 20 or 12 Concord grape vines for \$10.00. 12 gooseberry bushes for \$1.00. 100 asparagus roots for \$1.00. Not the cheapest but the best. Live and let live prices. All above small bargains post paid. Catalogue worth seeing. Free.

THE ALLEGAN NURSERY, Allegan, Mich.



Of luscious Strawberries, also standard Varieties: 100 each Prolific and Gibson, 50 each Postpaid. 1 Spirea or 2 Concord Grapevines with every order of \$5 or more. We also save you money on thrifty Fruit Trees, Shrubs and Ornamentals. Write prices. Watson's Strawberry Acres, R. 5, Box 54, Grand Rapids, Mich.

STRAWBERRY PLANTS

Priced as low as \$3.00 a thousand. Raspberries, Grapes, Currants, etc. 30 years' experience. A complete line. All plants inspected, guaranteed. Write today for free illustrated catalog. J. N. ROKELY & SON, Rt. 6, BRIDGMAN, MICH.

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

SOLVAY PULVERIZED LIMESTONE

Don't let another seeding go by before you put in SOLVAY. You make more money using SOLVAY because it gives you bigger crops, better crops and that means more money.

It's so easy to handle SOLVAY—shipped in 100 lb. bags or in bulk, may be spread by hand or lime sower. Safe, will not burn, and is so finely ground it brings results the first year.

Sweeten your soil and you "sweeten" your bank roll too. There's years of profit in using SOLVAY. Find out all about it—Write for the valuable SOLVAY lime book—free!

THE SOLVAY PROCESS CO.

Sales Agent, Wing & Evans, Inc.

Real Estate Exchange Building Detroit, Mich.

**This
Year
Spread
Solvay**

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

800 gallons of *deadly spray*
at less than 2¢ a gallon

NEXT to its deadly certainty, the best thing about Hall's Nicotine Sulphate is its very low cost. It can be diluted with water 800 to 1000 times to make a deadly spray costing less than 2 cents a gallon.

Hall's Nicotine Sulphate contains 40% pure Nicotine—the most powerful contact poison known. Being a vegetable extract, it will not harm fruit, flower or foliage. But it will wipe out aphids, thrips and similar insects. Use it next season.

Buy from your dealer. If he is not supplied, send us your order along with his name.

HALL'S
NICOTINE SULPHATE

HALL TOBACCO CHEMICAL CO.
3951 Park Ave., St. Louis, Mo.



10 lb. tins—\$13.50
2 lb. tins—3.50
1/2 lb. tins—1.25
1 oz bottles—.35
10 lb. tins make
800 to 1000 gallons
of spray.

OUR SERVICE DEPARTMENT

Always Give Name and Address When Sending Inquiries as Satisfaction
Service Cannot Be Given to Unsigned Letters

AUCTIONEER'S CHARGES.

How much can an auctioneer charge at a sale? I want to have a sale and they want to charge three per cent commission on total amount of sale, with minimum charge of \$25 besides. Can they collect the \$25 besides the percentage? How much can a clerk charge? Is there any law on such charges?—F. O.

Auctioneers have no monopoly, they are under no public service duty like common carriers, they say what they will work for, and no one need hire them unless they like the price.—Rood.

RENTAL PROPOSITION.

Please answer the following: A. rents a farm of B. B. furnishes everything. What share should A. receive? Is stock fed out of undivided feed or does B. feed all stock?—L. I. N.

When the landlord furnishes everything, that is, land, machinery, tools, horses and other live stock, and the tenant furnishes the labor, the usual practice is to divide the farm receipts on the basis of one-third to the tenant and two-thirds to the landlord. In this case such farm expenses as seed purchased, twine and thresh bills should be divided on the same basis as income. It is generally more satisfactory to feed live stock out of undivided share of the feed.—F. T. Riddell.

MUST A. DIG THE POTATOES?

If A. was putting in potatoes on shares on B's land, A. furnishing half the seed, plows and fits the ground, plants potatoes and cares for them, is A. supposed to dig all of A. and B's potatoes, or what?—C. P. B.

This question should have been thoroughly understood before you planted the potatoes. It is a matter for agreement between A. and B.

From the inquiry one would get the idea that A. was to do all the work. If so, then he should dig the potatoes. But if B. agreed to dig his share of the potatoes, that is different.

I know of no law of custom that would strictly apply. I have known of instances where the owner of the land took his share of the crop in the field before digging, dividing the crop by taking each alternate six rows. But this was agreed upon beforehand.

Where no stipulations were made beforehand, I am inclined to think that custom would compel A. to harvest the whole crop.

WASTE BY MORTGAGOR.

I sold a farm last April and took a mortgage back on the farm. Inside of three months, the man to whom I sold it moved the house into another county without saying one word to me. What can I do?—Subscriber.

The proper remedy would be injunction before the act is done, if known in time. Otherwise an action may be maintained to recover the house and have it sold as part of the foreclosure of the mortgage, or an action on the case in the nature of waste might be maintained, and a body execution had on the judgment.—Rood.

RADIO QUESTIONS.

How is a loop antenna coupled to a receiving set using a loose coupler? Does it matter in which direction an L-type antenna is erected?—V. C.

Assuming that the hook-up you have is of the regenerative type, connect one end of the loop to the grid condenser and the other end to the primary winding of the loose coupler.

The writer has used a loose coupler receiving set for some time and has

had excellent results with an outdoor antenna. The loop antenna will not give as good results as the outdoor antenna, and will not bring in the distant stations as clearly. One or more steps of radio frequency amplification is recommended.

The direction is the L-antenna is important. The best results are obtained when the lead in end of the antenna is directed toward the transmitting station. However, very clear reception has been obtained from distant stations at right angles to the direction of the antenna.—E. C. Sauve.

BROWN SWEDE BEAN.

I would like some information in regard to Brown Swede beans. I have been talking with a reliable bean dealer and he told me that he would guarantee me a market on them at twenty-five cents per hundred pounds more than the white beans. Also, he said they would not color as much on a wet season, which would give less pickage than the white bean. Are these beans as early as the white bean? Also, how do they yield, thresh and harvest compared with the white bean?—H. B.

The writer knows but little about the Brown Swede bean. It is probably a good variety, but unless you have a special market you can not afford to grow a very large quantity of them. If you grow white beans you know there is an established market for them, at some price. But these special varieties have no established market. If you can get a guarantee for all you produce, well and good.

You will find, however, that a bad season will affect the quality of brown beans quite as well as white ones. A good quality of brown beans have a distinct color and appearance just as much as the white ones, and allowing them to get wet will discolor them and ruin their appearance and hence lessen their market value.

You can write the seed houses advertising in the Michigan Farmer, for prices of these beans.

A SHARE RENTAL.

I have rented my farm for one year. This being the first year, beginning March 1. Last year I hired the same renter by the month. I furnished all stock and tools and equipment except the cows and chickens. The renter furnishes half the six cows and the 150 chickens. The renter is getting half of the produce and increase from cows and chickens and one-third of all other stock and produce. Now, what I want to know is this, at the beginning of his year, March 1, he had no feed or hay and I had a large quantity of it on the place. Should he buy one-third of the hay and grain or not? If it is left until the end of the year should he leave the same amount there, ton for ton, and bushel for bushel, as there was there at the beginning or not?—A. N.

The tenant should pay for his share of the feed used at the beginning of the year that was furnished by the landlord, or leave the same amount of feed at the end of the year. In the latter case the landlord gives the tenant the use of the feed for the year and runs a risk as to the value of the feed at the end of the year. The method followed should depend on the agreement at the beginning of the year.—F. T. Riddell.

LINE TREES.

A line fence passes through an orchard. Some trees stand on one side of the fence with limbs over the said fence and trees on opposite side with limbs overhanging. Whom do the apples belong to? Can I trim overhanging limbs perpendicular with fence?—H. R.

The fruit belongs to the person on whose land the trunk stands.—Rood.

PLANT 'EM EARLY.

EACH year as spring approaches, there is considerable discussion indulged in as to the best time to plant late or main crop potatoes. Practically every grower in Michigan has his pet date, ranging from May 20 to June 20, on which he "calc'lates" to plant his spuds. However, because of delays, some of which are unavoidable, most growers plant toward the end of the above period, probably more potatoes being planted after June 15 than before that date. In the writer's opinion, the average planting date in Michigan's potato sections might well be two weeks' earlier, say June 1 to 5.

Let us consider first, the objections to earlier planting. The first voice that is raised will be that of the old-time grower who considers the potato bug the greatest menace to his peace and prosperity. He plants late to avoid the bugs. Their appearance in his field means a fight, while to the grower who is spraying regularly with Bordeaux, the appearance of "bugs" involves simply the addition of arsenicals to this spray mixture, with no added labor. The cost of the arsenicals is more than offset by the advantages of early planting.

Another objection to earlier planting is the shortening of the time available for fitting the soil if the plowing is done in the spring. However, fall plowing is entirely practicable on most farms, and much to be desired if a second crop of clover or alfalfa is turned down, as is quite commonly done.

Some seasons, in some sections, the early planting turns out to be a disadvantage, because of the "setting" of the tubers during a period of drought. But a disastrous drought may occur in July, or August or September. In any case it constitutes a menace to the crop regardless of the date of planting.

In southern Michigan sections, there may be a slightly better yield from late than early planting, other conditions being identical. In fact, there is an old saying in regard to planting dates: "June 1 for quality, June 20 for quantity."

That one word "quality" expresses volumes that might be said about earlier planting of potatoes. When the crop is planted so late that it must be hustled out of the ground in an immature condition in the fall, quality is found to be sacrificed. No amount of grading will make a batch of immature, skinned-up, "feathery," blackened potatoes attractive to the eye of the buyer. When Michigan potatoes are selling in the large markets at prices considerably lower than stock from other states, it is a mighty good time for the Michigan grower to consider every means of improving quality.

"Field Frost," which is also responsible, to a certain extent, for present prices, is quite often intimately associated with late planting because of the inability of the grower to store or market his crop before severe freezing gets it.—E. S. Brewer.

GIVE THE HIDE A CHANCE.

IN taking hides from animals and putting them on the market, there are two things to consider: In the first place, the utmost care must be exercised in removing the skin to avoid cuts and scores, and when the hide has been removed it should be salted with fresh, clean salt. Salt which has been spent has but little strength and when used for this purpose has insufficient curing properties.

Bridge grafts save trees mice girdled last winter. Your county agent knows how.

When you Buy a Closed Car buy one that's COMPLETE

The Oldsmobile Brougham
Completely Equipped—Now \$1375



There is unusual leg room and seat room for five adults. Front seats tilt forward providing generous entrance space for bulky luggage. There is also a locked luggage compartment under the rear deck.

Be sure that the closed car you buy is complete—no extras to be bought later. The Oldsmobile Brougham is such a car—ready to drive away from our showroom at a minute's notice for a cross-country trip.

Insist on standard closed car construction. The Oldsmobile Brougham is sheathed with steel panels from floor to roof. No compromise with composition materials which are apt to warp.

The chassis is the famous Four chassis which is known all over the country for endurance, speed, easy riding, and operating economy.

Don't buy a car of the Brougham type without seeing the Oldsmobile Brougham! It's not only an Oldsmobile, but a General Motors product as well—double assurance of high quality.

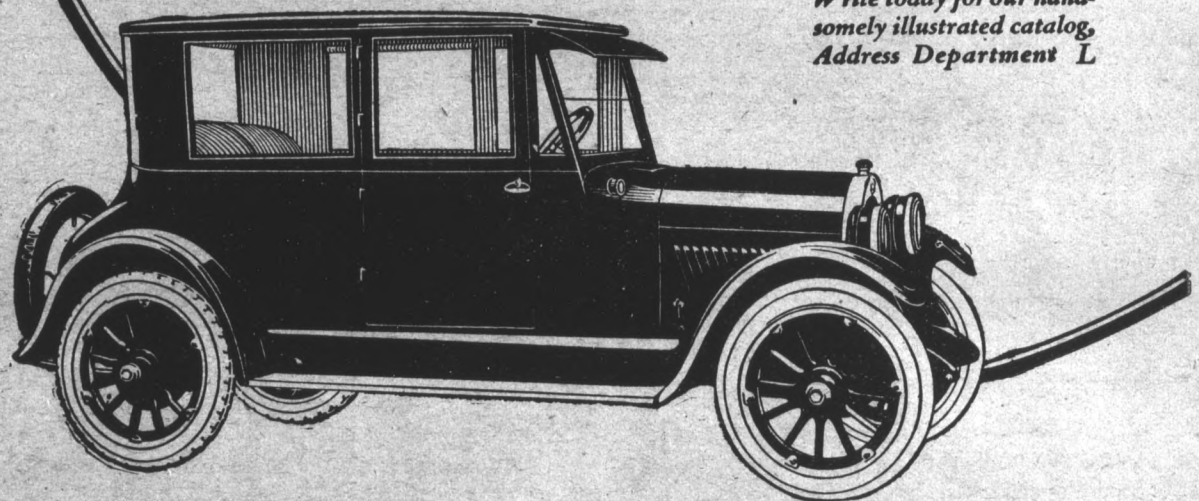
See this wonderful car at any Oldsmobile showroom.

OLDS MOTOR WORKS, LANSING, MICHIGAN
Division of General Motors Corporation

Fours—Eights—Trucks

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Write today for our handsomely illustrated catalog,
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DESTROYED

Every Year by Lightning, an Appalling Property Loss. But think of the hundreds of lives lost yearly. Are you safe? You can get guaranteed protection for your home, your property and your lives by installing the

SECURITY SYSTEM

Lightning Rods on Your Buildings. Our policy is to see that the property owner gets genuine protection. There is an important distinction between guaranteed protection and merely buying lightning conductors. Proper installation is the paramount feature in the purchase of lightning protection. Our SECURITY Water Ground makes a permanently Moist Grounding that insures perfect operation at all times, under all conditions. Exclusive with us. An investment in a SECURITY SYSTEM calls for no risk. The investment is held by us subject to demand if the SECURITY SYSTEM fails to protect.

Delays are very dangerous. Any purchaser of a SECURITY SYSTEM can have an official Okay on his installation free of charge by writing us and describing it in detail. Write today for our book of complete information and particulars.

SECURITY LIGHTNING ROD COMPANY
607 Pine Street, Burlington, Wisconsin

GALLOWAY'S
LUCKY PENCIL FREE

A great big Jumbo Lucky Pencil free to all who write, an advertising gift to introduce Galloway's merchandise and Galloway's Bargain Prices to all farmers of America. Write today for Pencil and facts about

BIG BARGAINS
Cream Separators, Engines, Spreaders and other farm necessities never were so cheap. Terms were never easier. Dollar values never were as big as Galloway offers now. Prices cut clear to the bone which means two articles for the price you usually pay for one. Terms to suit your pocket-book. Get my Special Bargain Proposition.

New 1923 Catalog FREE
A book filled with bargains of guaranteed merchandise that should be in every farm home. Prices that will open your eyes and make your dollars do double duty.

Wm. Galloway Co.
Dept. 187
Waterloo, Iowa

EASY TO SELL GROCERIES

Paints, Automobile Oils, Roofing, Stock Food to consumers from samples; no capital or experience necessary; steady, profitable work. Commissions advanced. Satisfaction guaranteed; 50 years in business. Write or particulars, **LOVERIN & BROWNE COMPANY** Wholesale Grocers, 1776 S. State St., Chicago, Ill

Mention The Michigan Farmer When Writing Advertisers

ARCOLA keeps Lemuel's hired hand

LEMUEL SIMPKINS couldn't keep a hired hand through the winter in that freezing room on the top floor.

"Along came a heating man and sold Lem an ARCOLA and five radiators; one in the hired hand's room, too.

"Now Lem's hired man says he'll work for less money in the winter 'cause his room's the most comfortable place he ever had.

"And Lem's coal bill's cut in half."

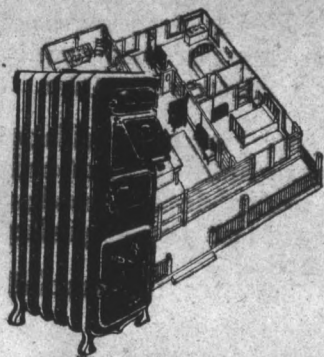


ARCOLA is a small boiler designed (both for hot-water and steam) to furnish radiator warmth to small houses, apartments, stores, offices, shops, schools and churches. No running water is required.

Set in the parlor, living room, dining room, kitchen or basement, and connected with American Radiators, it warms every room evenly; also heats water for bath, laundry and kitchen. And it pays for itself in the fuel it saves.

A demonstration will cost you nothing; it may save you much. Drop in today at store of your Heating Contractor.

Send for the free ARCOLA Booklet



A postal card mailed to the address below will bring this finely illustrated book. It tells just why ARCOLA will add several times its cost to the value of your home, and how it pays for itself in the fuel it saves.

AMERICAN RADIATOR COMPANY
Ideal Boilers and AMERICAN Radiators for every heating need

104 West 42nd Street

Dept. F-40

New York City

Please Mention Michigan Farmer When Writing To Advertisers



Figure your Roofing this way-

A large share of the expense in any roof is the labor of laying it. If you put on the right kind of roof, that settles the matter for good and all. You are never going to have to fuss with it and your first cost is going to be your last cost. That is the result when you insist on having

"HALF CENTURY" BRAND WHITE CEDAR SHINGLES.

Laid With Galvanized or Copper Nails

There is no wood that can excel White Cedar in weather-resisting quality. That's why it is such a wonderful shingle wood. And "Half Century" Shingles are the best White Cedar Shingles because they are made the right thickness and are air cured.

Shingles that are cut too thin or are too hastily seasoned, as is apt to be the case when they are cured under the dry kiln process, are liable to split in nailing and they have a tendency to crack, curl and warp.

"Half Century" Shingles are cut right, cured right and they last as long as their name indicates. And they stain beautifully in any shade.

All lumber dealers can supply you. (Look for the trade-mark on every bundle. It's your guarantee of quality.)

Ask us for a copy of our valuable booklet, "How to Lay a Shingle Roof." It's free.

WHITE CEDAR SHINGLE MANUFACTURERS
503 F. R. A. Building Oshkosh, Wisconsin

News From Cloverland

By L. A. Chase

SOME MONEY-MAKING OPPORTUNITIES.

MR. B. F. KINDIG, state apiary inspector, believes that, if our northern farmers are to succeed, they must diversify their products and avoid as much as possible, the production of competitive products. Discussing this subject at Marquette recently, he pointed out that the prospective exclusion of eighty million narcissus bulbs from the United States, now imported annually from the Netherlands, opens up a real possibility for profit for those who embrace the opportunity, and he affirms that soil and climate conditions in the northern area are very favorable for this narcissus culture, and in this opinion he is supported by Dr. J. N. Lowe, of the Department of Biology of the Northern State Normal School, Marquette.

Mr. Kindig also instances sphagnum moss, consumed in large quantities for packing and other purposes and shipped in very large amounts from some localities, but not from here, although it grows here. The state apiary inspector adverted to these possibilities, lest some suppose he thought only of the possibilities of bee culture. He has repeatedly pointed out the opportunities in honey production in the northern cut-over country, and he paid a compliment to those bee-keepers here, who under temporary adverse conditions the past winter, are game and determined to persist. He pointed out that much honey is shipped into the Upper Peninsula from other states. The large foreign element in this region comes from countries and peoples that are large honey consumers. He thought that a greater effort should be made to supply this demand locally. As elsewhere the winter has been unusually long and may involve artificial feeding of bees.

County Agricultural Agent W. N. Clark, of Ontonagon county, assures the writer however, that fifteen pounds of white sugar will take care of a swarm very well, when properly treated. Mr. Kindig does not advise the general adoption of bee-keeping here. There are relatively few people, he says, who are fitted for it. It requires on the whole, a rather peculiar person to succeed in it. Bees are particular about being handled and have means of demonstrating this fact; but he thinks the business has real possibilities for the right persons.

THE STABILITY OF NEW SETTLERS.

FOR thirty-one years Mr. J. H. Jasberg, a well-known Hancock business man, has been engaged in placing settlers on the cut-over lands of the Lake Superior country. Mr. Jasberg has become intimately acquainted with the serious aspects of rural conditions in this region. He points out that when the farmer acquires his land, the vendor's relation with the purchaser by no means ceases, as one might suppose. It will take the new farmer on raw land at least five, six or seven years to get on his feet so he can take care of himself unaided.

Frequently the farmer requires a small loan to purchase a head or two of stock, or a little feed or forage. These are small but very necessary transactions and the normal thing for the farmer to do is to return to Mr. Jasberg with a statement of his case and an invitation to his patron to endorse a note for him to finance the undertaking. This is done time after time, and it is a testimonial to the honesty and frugality of these people

that the endorser of these notes has, in transactions aggregating hundreds of thousands of dollars in all these years, never lost a dollar, except a small matter of \$5.15, which happened last spring. Mr. Jasberg is careful to point out that in this small instance it was the case of a young fellow who really should not be classed with the other farmers. Mr. Jasberg makes it an invariable point before disposing of farms to purchasers, to ascertain if the purchaser is married and whether or not his wife is desirous of living on a farm and is ambitious. She is a bigger factor in the deal than her husband, for if she is favorable to the proposition, she will get her husband up at four in the morning, willy-nilly, and see to it that success is assured, if this is necessary.

SOME MISUNDERSTANDINGS CLEARED UP.

(Continued from page 479).

139, or \$126 on every carload lot. "At many points the cash buyers kept their prices down as low as twenty to twenty-five cents per hundred. A farmer at Weidman refused a buyer's offer of twenty-five cents per hundred and shipped a carload of potatoes through the marketing association. His returns were sixty-three cents per hundred, or a saving of \$159.00 on the one car.

"At Kingsley, buyers bought thousands of bushels from farmers, ignorant of market conditions, for twenty-five cents per hundred when the local marketing association was returning fifty-two cents per hundred to its loyal members. As a matter of fact, car shortage and the lack of the cooperative spirit in many farmers are the only two things which enable buyers to continue their speculating operations in the state.

Bearing the Market.

"Another peculiar practice of the buyers and brokers in the state is 'bearing' the market, to the great detriment of potato growers generally. This practice consists in pulling the market down rather than trying to boost it up.

"An example of this practice comes to our attention from Cleveland where, on March 9, we were quoting potatoes in 150-pound sacks, delivered, at \$1.90. On the same day a Cadillac broker, dealing in 'better quality sand land potatoes,' quoted the same trade at \$1.72 a sack, eighteen cents under the Exchange price. There have been many times during the season when the exhibition of a little backbone on the part of independent Michigan shippers would have made it possible to save thousands of dollars for the Michigan growers. Why do they do this, you ask? In the case of the broker, working on a flat rate per car, the selling price is immaterial. The independent buyer, however, with a large number of leased cars, must price his offerings to sell in order to keep his cars moving. Those are the main reasons."

"Well, that clears up a lot of things I did not understand before," said the potato grower. "I'm going to join the association today."

And he did.

Man must do with his hands what the hen does with her feet if he wants good hatches from the incubator. Turn the eggs daily from the third to the eighteenth day. Three turns a day is not too many.

When buds burst, it's too late for the dormant spray, your last chance to head off San Jose scale.

Francisco Farm Notes

By P. P. Pope

THE last week in March sees the mercury still hovering around zero and the snow banked up along the hedge two feet deep. It is difficult to realize that it is oat sowing time. That is, oat sowing time by the calendar. So the fanning mill is busy, and the seed supply is being put in the best possible condition.

The Fanning Mill.

We consider the fanning mill one of the most important articles in the farming equipment, and we use it to the limit, not only with the oats but with all the other farm seeds. It even comes in handy for grading the seed corn and recleaning the clover and timothy seed.

We do not make a business of producing timothy seed, but last year we found a hog lot that had been seeded to alfalfa, clover and timothy, and contained a nice growth of ripe timothy, practically pure. The hogs had eaten the alfalfa and the clover very close but left the timothy practically untouched, so we put the binder in, cut the best of it and put it through the threshing machine ahead of the oats. The result is several bushels of choice timothy seed that needs recleaning before sowing.

The time that we put in now with the fanning mill means just that much saved for the field when the ground is dry enough to work. The temptation is strong to slight the cleaning job if it is left until sowing time.

The "Maternity Hospital."

Most of the little pigs are coming on fine. The zero weather was too much for a goodly number. But, with careful attention to the nursing periods and by keeping them confined to the baby incubators much of the time for the first couple of days, we have succeeded in saving from six to ten for each of the five sows.

The "Baby Incubator."

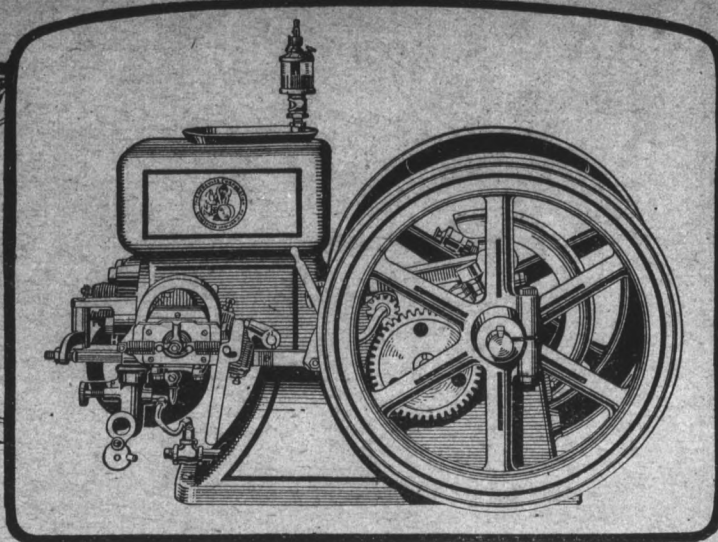
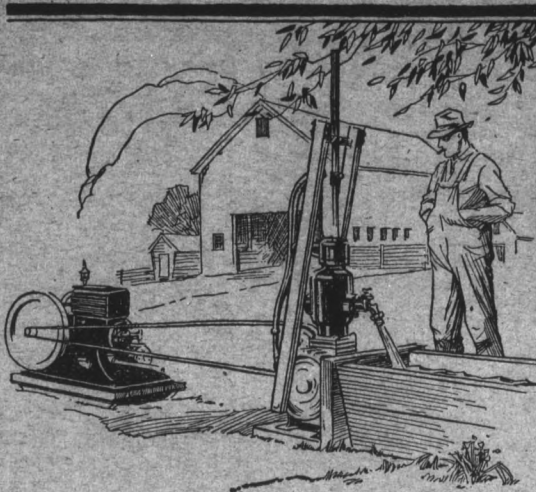
I PRESUME the reader is curious to know about our "baby incubator." Well, it is simply a handy little dry goods box with a hot water bottle or a jug of hot water, or a hot brick in the bottom, and kept well bedded with clean straw. A warm blanket is used for covering, leaving only a small opening for ventilation. We always manage to let nature have her way as much as possible and believe it is best for both sow and litter if they can be left together, but when severe weather or careless mothers mean sure death to baby pigs, the improvised "baby incubator" often turns out to be a life saver.

Housecleaning Time.

Spring time is cleaning time. We men folks usually have some very pressing work at the barn or in the fields during housecleaning time, but try as we may we can not escape it all.

On Francisco Farm we have had considerable shifting about to do from one house to the other this spring, and while the one has been vacant the time has been opportune for some rather thorough renovating. Fresh coats of paint and varnish on walls, woodwork and floors have made it as fresh and clean as new.

To get regular painters out in the country at this time of year and get the work done right, we found would require lots of waiting on and supervision, so we have taken the paint brush and done the work ourselves. Perhaps it is rather a mean trick to play on the painters, but at least the job is done when we want it done and to our entire satisfaction, and it is possible that the seventy cents an hour saved may be as welcome here on the farm as in the painter's pocket.



"It has already paid for itself"

"A YEAR ago," writes Benjamin Gerlack, of Kingston, New York, "I purchased a 5 H. P. Hercules Gasoline Engine, thinking that it would help the hired man and me about the barn and farm.

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does them faithfully the year 'round.

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From Extra Selected high producing stock that has been bred for **HIGH FLOCK AVERAGES**. **PURE BRED S. C. English White Leghorns** or our **Heavy Laying Brown Leghorns** 100: \$15.00; 500: \$72.50; Select Anconas 100: \$16.00; 500: \$77.50; Special prices on 1,000 lots. Our flocks are scientifically culled and approved by experts. Customers report pullets laying at age of 4 months. Order some of these **BIG VALUE** chicks now direct from this ad and you will be convinced of the exceptional high standard of our stock. We ship postpaid, 100% live delivery guaranteed. A deposit of 10% will book your order for shipment on any Monday you may desire. Beautiful catalog free. Reference **ZEELAND STATE BANK**.

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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. Instructional catalogue and prices free on request.

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From selected, heavy laying, vigorous hens. English and American White Leghorns, Brown Leghorns, Anconas, Barred Rocks. Our flocks are mated by expert poultrymen and are mated to large, vigorous, pedigreed males. All on free range and housed in well-ventilated and correctly constructed poultry houses. Well hatched in modern machines. All orders are correctly and carefully packed and shipped and have our personal attention. Postpaid. Full live arrival guaranteed. Bank reference and this guarantee make you perfectly safe in ordering from us. Get them when you want them. We want your business. Prices right. Catalog free.

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English Type White Leghorns, Brown Leghorns

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% live arrival guaranteed. Parcel post paid. Write today for free catalog and prices.

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Dependable Baby Chicks

256 Eggs in One Year

From World's Champion Layers
That Grow Quick, Lay Heavy, Pay Big Profits
S. C. White Leghorns, Trapped, Pedigreed, direct importation from Frank Snowden, England. Egg Records 250-291 Eggs.
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GET BIG PROFITS IN WINTER LAYERS

My parent stock is bred for high egg production and is able to reproduce its kind. My Monarch Strain Chicks make wonderful heavy winter producers when prices are high. Strong healthy chicks. Real money-makers. Thousands of satisfied customers order from me year after year because they get absolute satisfaction. Order direct from this ad.

"FREE"—My beautiful 32-page catalog tells all about my wonderful Monarch Winter Egg Strain. It is full of money-making information. Shows life-like photos of our high pedigreed breeders. Catalog is free. Send for it today.

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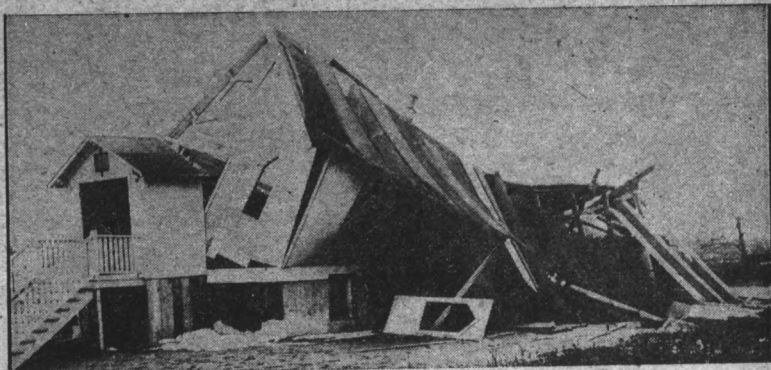
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WORLD EVENTS IN PICTURES



This freight train was blown completely off the tracks by a terrific tornado which swept the town of Pirson, Tennessee, causing the death of fifteen inhabitants.



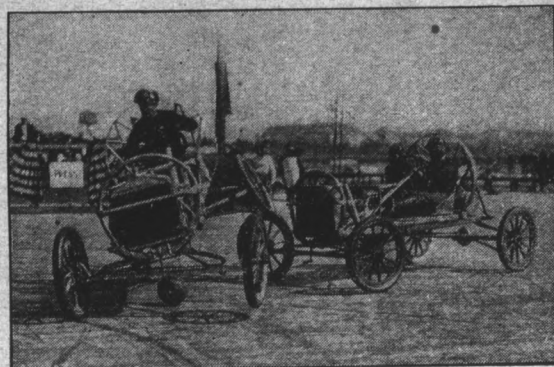
When the recent storm swept the mid-west, it left in its path numerous wrecked buildings such as this church, which was located on Michigan Avenue, Chicago, Illinois.



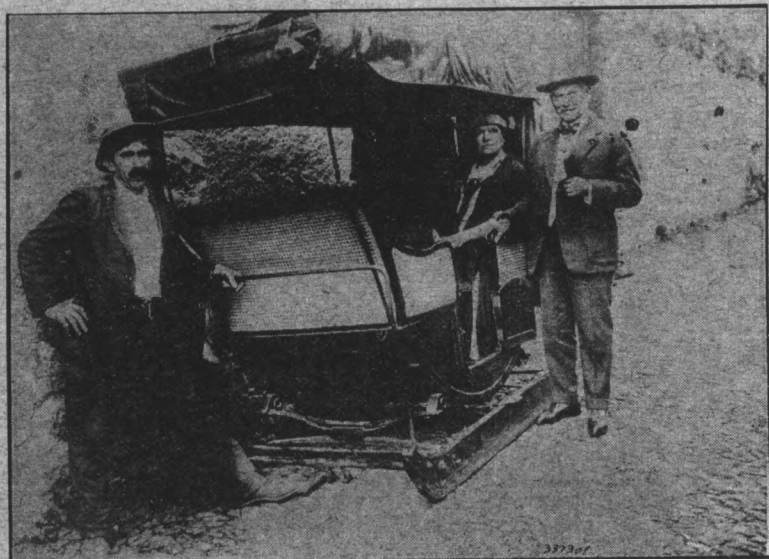
Queen Neny I was chosen as queen of the 1923 carnival recently celebrated in the Philippine Islands.



Sir Paul Dukes, world-famous British spy, has admitted that \$100,000 is price placed on his head.



Life insurance agents don't bother the players in the game of flivver polo, which is becoming a popular sport in many sections.



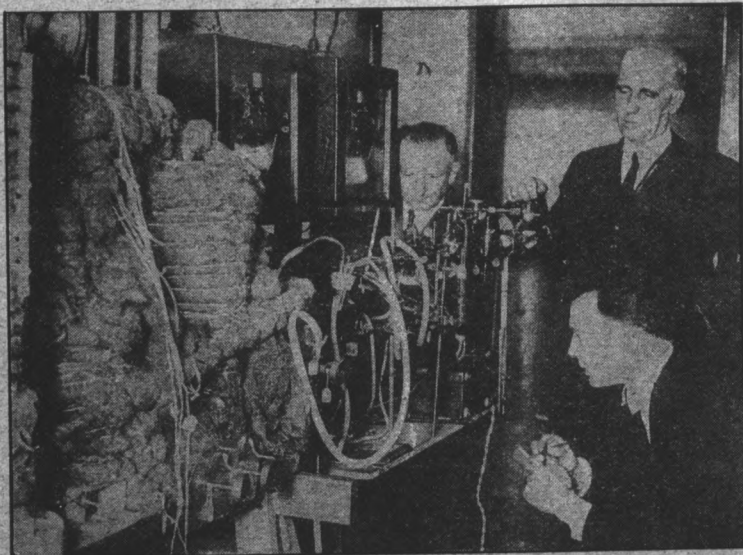
Judge Elbert H. Gary, chairman of the U. S. Steel Corporation, and Mrs. Gary, enjoyed this ride in a "Maderia taxi" while making a tour of the Mediterranean regions.



These players may be seen with the Yanks training down at New Orleans. Left, Hendrick, left fielder; center, John Suggs, recruit pitcher; right, George Anderson, third baseman.



Six-year-old Chinese boy will travel alone for 8,500 miles to see his mother in Canton, China.



By means of this complicated apparatus it is possible to make helium gas out of "natural" gas. The use of this gas will increase the safety of Army and Navy balloons.



Rube Marquard, the veteran south-paw pitcher, is in training at St. Petersburg, Florida.



SHE whimpered like a baby that was cold, and lay down beside him. Then as the wind annoyed her she moved as near to him as she could get. There came upon the cold, stinging, moaning wind another coyote howl, long-drawn, shrill, mad, and lustful. It seemed far away but inexpressibly terrifying. Little Queen raised her trembling head. The old sorrel pricked his ears. But she saw the big pointed ears go back into place again and the big shadowy head take its former sleep position. He was not afraid, she was glad of that; but she was afraid. Strange images, visions she sought to drive from her mind by closing her eyes, tormented her.

She was lying right against his back. Slowly she lowered her head upon his neck, testing his willingness by degrees. When her head was finally resting fully on his neck, he only whinnied softly, and Queen tried her best to reply gratefully. A feeling of ineffable gratitude swept over her with the warmth of his body.

All through the night she thought of her mother, when awake, and dreamed of her when asleep. A thousand times she broke from her light snatches of slumber, from her horrible dreams of coyotes, to pierce the storm-filled gloom with her terrified eyes, expecting hopefully to find her mother standing over her and looking down upon her; but only the emptiness of the night, obliterating the world she had known, shrieked with an uncertainty that filled up her soul.

IT is only the foolish who bewail the inevitable with wasting passion; it is after all the wise who accept it and make the most of things. Because the inevitable is so much more the ruling force in animal life, animals adjust themselves more quickly to new conditions. Conceited man attributes that early adjustment to a lack of feeling. Yet when little Queen awoke on the first morning of her orphanage, there had already come into her eyes and upon her head a perceptible sadness, the sadness of resignation.

A great change had come over the world in that single night and so different did it seem from what she had known it to be, that as far as she could think, the night might have been a space of years; that years might have elapsed since her mother, who hitherto had always warmed and fed and protected her, now had ceased to warm and feed and protect her.

How white the world was! The little white flakes that had fluttered about in the air at nightfall had cov-

ered up all things with a heavier whiteness than that of any frosty morning in her experience. And she expected that with the coming of the warmth of day it would all disappear. Yesterday it had taken the forms of the things it had covered, this morning only the heads of the horses stuck up out of the drifts of it, while stones and coyote dens had been completely wiped out of existence. Her own feet were out of sight. She jumped up to see whether it would interfere with her jumping up, and was glad to note

reflection, ceased seeing altogether for a few minutes. But as soon as she could see once more, Queen began to search for her mother and this search, each succeeding day with less hope and enthusiasm, she never wholly abandoned. She sniffed at every mare about her, calling plaintively and knowing her mistake in the indifference with which some of them listened to her appeal or the annoyance which others were too ready to show.

The old sorrel got up at last and shook the snow from his back. She

only a few blades and since he did not seem to mind it, she tried to be quicker next time. She did get a mouthful occasionally but it was not enough for her appetite and it finally dawned on her that she ought to work for herself. She pawed the snow very close to him and as soon as she spied him eating, she would seize as much of the grass he had uncovered as she could, then quickly go back to her own.

A HUNDRED times that morning she wearied of pawing snow, and each time her head would raise and she would look wistfully off into space with the irrepressible impulse to go looking for her mother; but she did not know which way to go in every respect, in every aspect, her life and the earth had changed in the night. When, as she looked, it seemed to her that a certain direction was the right one, she would think of the coyotes and fear would extinguish the impulse. She made several attempts to get the old sorrel to go with her. She would start off in what appeared to her the right direction, and walking a few paces would stop and call to him. He would pay no attention to her for a while; then as if to stop her calling, he would walk over to where she was and begin to paw the snow there. But it took so much energy and so much time to get him over each bit of space, that she made little headway; and when darkness began dulling the whiteness, her fear of the coyotes who seemed to people the shadows became so intense, she did not dare to leave the sorrel even to the extent of a few paces.

Several very sad, dull days went by. Then came a day during which the sun shone for a while and made her feel better. But it melted the surface of the snow and the cold evening froze it into ice. The struggle for grass became harder and her constant slipping made life very disagreeable.

She saw the black colt now and then. Though he was livelier and far more happy than she, he made no attempts to molest her. Tolerance characterized every move of every member of the herd. The rigors of the sudden winter seemed to strengthen the racial bonds of these good-natured creatures. Each one went his plodding way, thankful for the silent companionship of the herd and showing his appreciation by refraining from any offence to his neighbor.

Queen clung to the old sorrel though she did not thrive on his passive fosterage. She was losing weight rapidly. Her eyes dulled, her head began hanging low and even her long

When the Incubator Hatches

(Addendum to "When Our Cow Comes In" in Farmer of March 17th)

By M. G. Van Ness

Yes, a man is always sure to think
That when the cow comes in,
He can buy us everything we need
Both outside the house and in.
But see the dress I'm wearing,
'Tis all dotted o'er with patches,
And I cannot have a new one
'Till my incubator hatches.

When Johnny gets those brand new
pants,
I know he'll want to go
Down to the little village
To the dog and pony show.
He wants to see the pony clown
Do all those wondrous tricks,
And he's going to have a ticket
When I sell the baby chicks.

The baby needs the dolly, too,
And dolly needs a bed,
For when she's rocked to Bye-lo-land
There's no place to lay her head.
But baby'll be so happy soon,
Her tears I'll put to rout
With a nice new dolly cradle,
When the little chicks hatch out.

Yes, our old cow helps out a lot.
She pays bills at the store—
For shoes, and pants, and dollies,
And keeps wolves from door.
But when the cows have all come in,
It seems to me so funny
That all our little luxuries
Are bought with chicken money.

how easily it was shaken from her body. She took a few steps, discovered that it was disagreeable to wade through and stopped. On the white rim of the bowl stood a flock of prairie chickens as if they had been discussing the great change. She watched them half interestedly. They were birds, and birds were not to be feared. She looked over them and beyond them. There, somewhere, she felt was her mother. She took a hasty step in that direction and stopped again. She was afraid to go.

SHE lowered her head and listlessly tasted some of the snow. It was not food, she knew that at once; and it turned into water in her mouth. One wants water badly when one wants it, but one cannot live on water. How was one to eat when there was no grass in sight and no mother about with the more substantial milk? She looked and looked away over the whiteness till her eyes, taxed by its

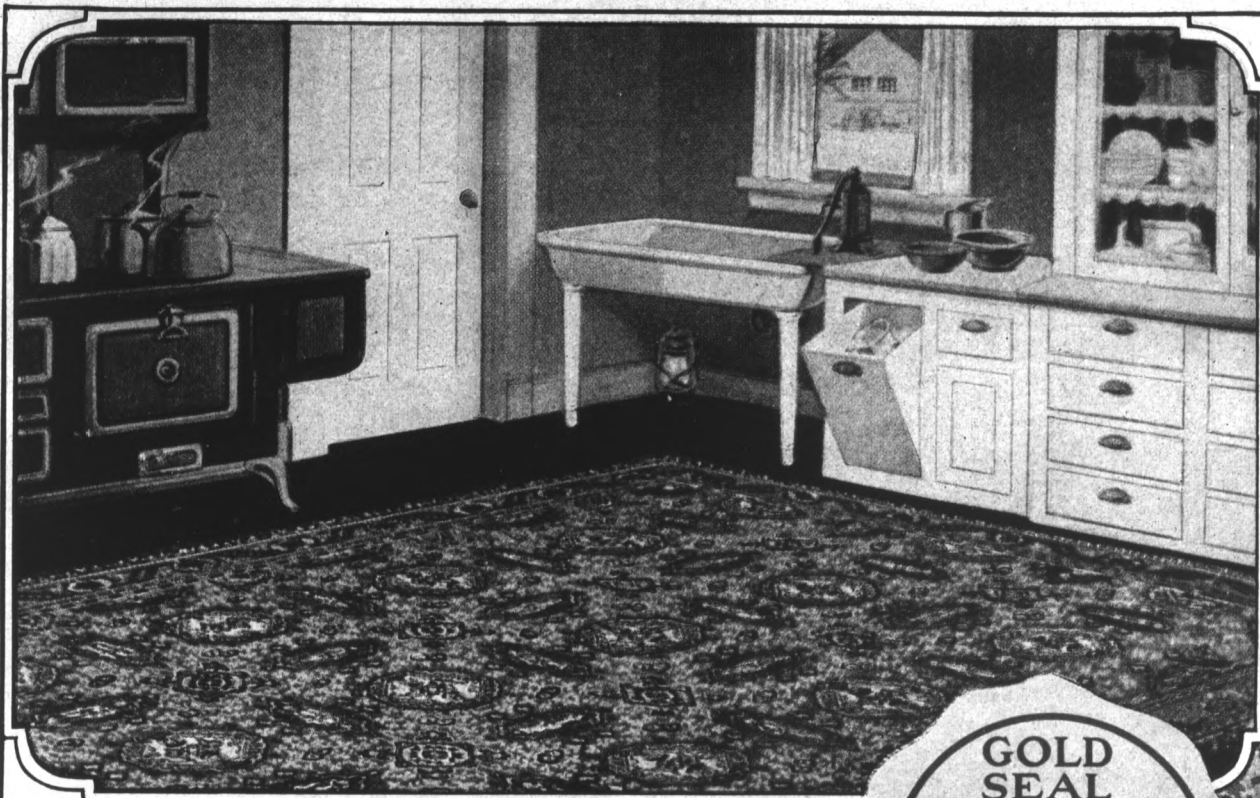
watched it falling in showers of white dust and through the sides of her eyes she saw a number of other horses do as he had done. She saw him take big bites of snow and shake his head quickly as he did so, so she too ate some more of it and shook her head up and down. When he lumbered away, sinking into the deep drifts as he went, she followed him.

Off on the slope horses were energetically pawing the snow and Queen wondered what they were doing. When the old sorrel, somewhat clumsily, beat the snow with his heavy front foot, she watched him curiously. She saw him laboriously expose the brown grass underneath and the sight of the grass relieved her, for she had been worrying about its disappearance. Though the snow was still packed in between the blades, he cropped up the grass just as soon as it appeared. She then watched for the next bit to appear and tried to get a bit before he had it all. She succeeded in getting

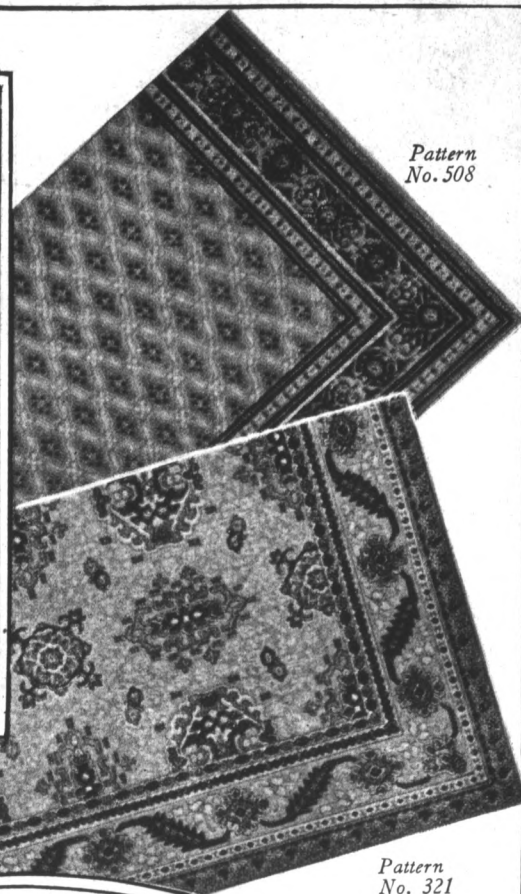
AL ACRES—Slim is Safe if His Batteries Don't Play Out.

—By Frank R. Lee.





On the floor is pattern No. 323. The 6 x 9 foot size costs only \$8.10



Pattern No. 534.
To the right of it is No. 530

Pattern No. 526.
To the right of it is No. 408

Pattern No. 518

Pattern No. 386

Pattern No. 381

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SATISFACTION GUARANTEED
OR YOUR MONEY BACK

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DAMP CLOTH

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Cheerful colorings, good taste in patterns, durability, all at a low price, have made *Gold-Seal Congoleum Rugs* the favorite floor-covering with millions of housewives. In all classes of homes they are preferred to dust-collecting woven rugs and carpets.

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You may buy your first *Gold-Seal Congoleum Rug* because you like the harmony of the colors in the attractive pattern.

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If you don't see the Congoleum designs you want on this page, write us for our Rug Chart. It shows many other beautiful patterns in actual colors and you can pick out, right in your own home, the rugs that will look best in your rooms.

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6 x 9 feet \$ 8.10	Patterns No. 386 and 408	1½ x 3 feet \$.60
7½ x 9 feet 10.10	(illustrated) are made in all	3 x 3 feet 1.25
9 x 9 feet 12.15	sizes. The other patterns	3 x 4½ feet 1.75
9 x 10½ feet 14.15	illustrated are made in the	3 x 6 feet 2.25
9 x 12 feet 16.20	five large sizes only.	

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Utility Coupé

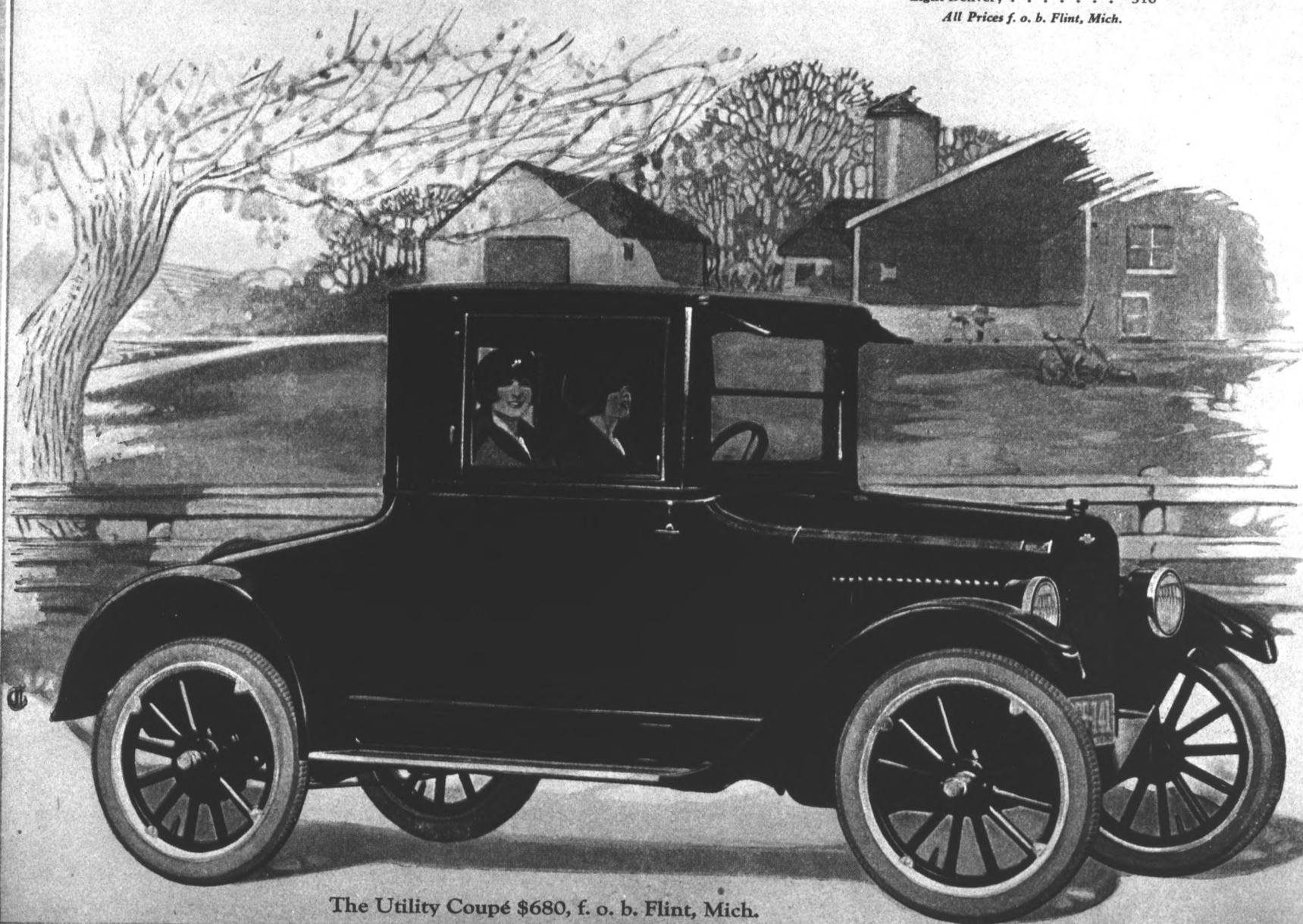
\$680

f. o. b. Flint, Mich.

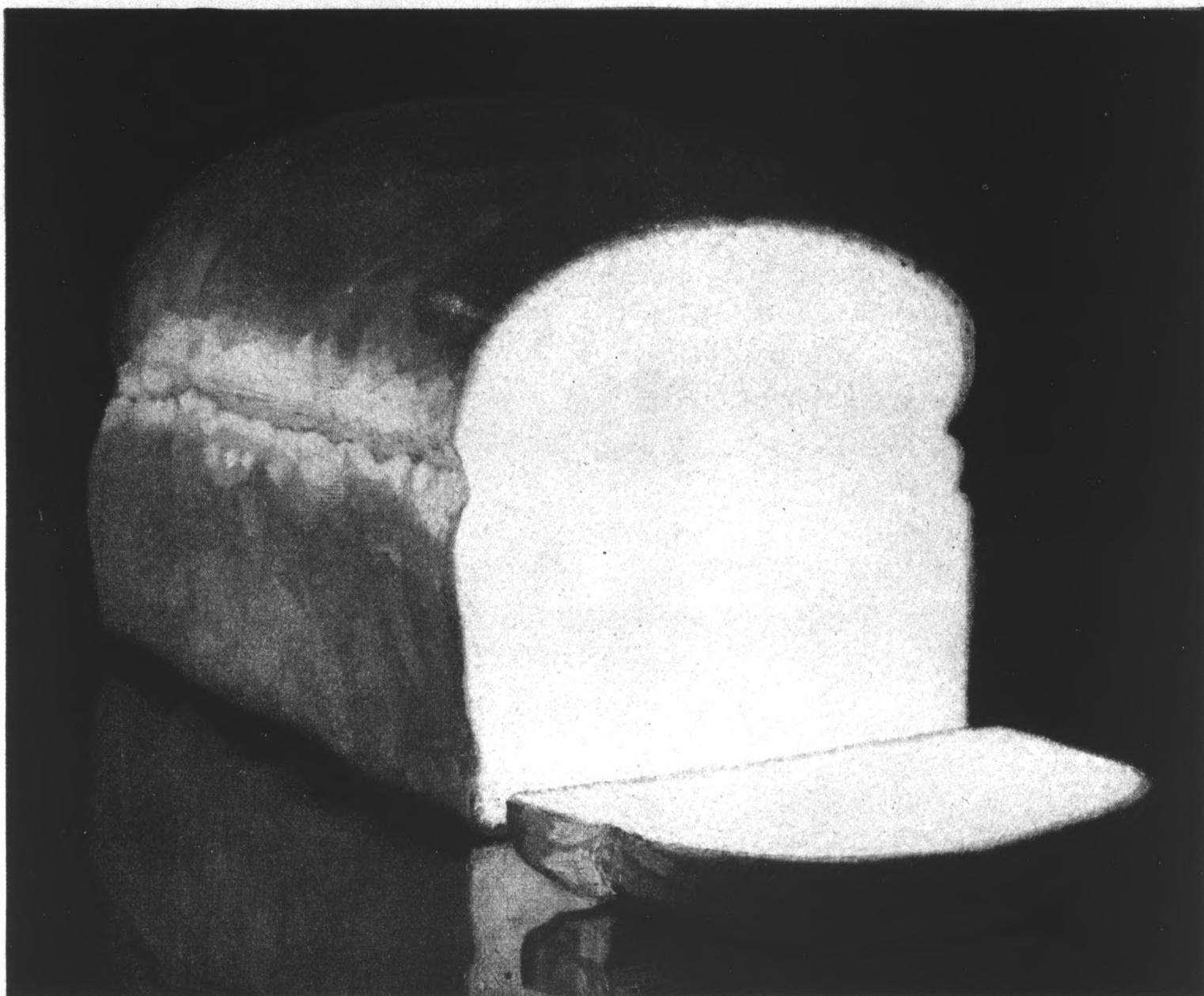
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winter hair could not fill the hollows between her ribs.

In pawing snow she found that her strength was not equal to the desire for food; and, resting often, she was almost always hungry. As she became weaker from day to day, she became more and more unhappy, and longed more and more intensely for her mother, who was nevertheless growing dimmer and more distant in her mind.

THERE came a grey day. A north wind whistled over the hard crust on the snow and loaded, black clouds dropped more white flakes with listless irregularity. Something pervaded the air of this day which was so similar to the day when she had lost her mother that she became irresistibly restless. All day this restlessness made it hard for her to dig. Late in the afternoon she started away with a suddenness that she herself could not understand. Up the slope and over the plains she went, sinking into deep drifts, pulling out again and going on without a pause, pursuing the image of her beautiful mother that had suddenly lighted up in her soul and as suddenly gone out again, before she could touch it. Somewhere in the dismal swirl it was and she struggled bravely but blindly after it, calling in vain as she went.

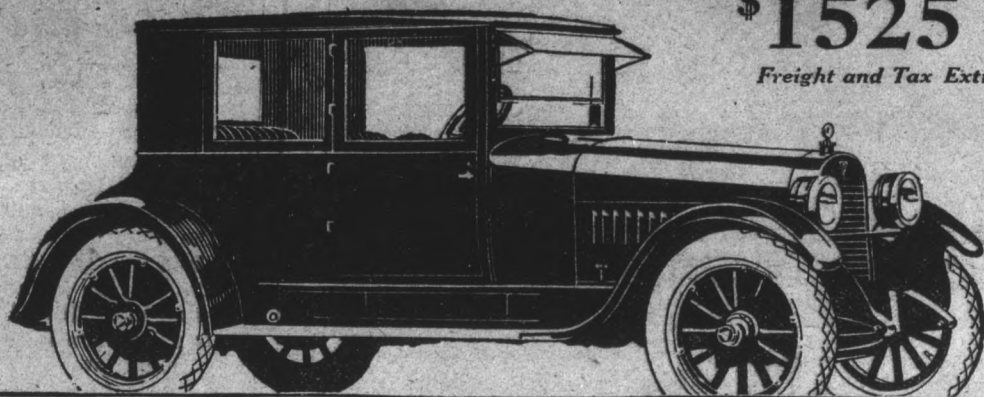
For fully an hour she plodded through snows that were piling up a foot above the harder crust, slipping, bruising herself on the jagged ice, resting when she could not go on any farther and coming at last to an understanding that she had been madly pursuing nothing, that she was lost, and that she wanted the protection of the old sorrel. She called to him again and again before she stopped to listen for a reply and suddenly became aware of an agreeable sound floating on the wind.

She called again, striking out meanwhile in the direction from which she instinctively felt the sound had come. Night was close at hand. The light that was still left was weakened by the showers of snow flakes that now fell rapidly and without interruption. Again it seemed to her she heard a reply. She spent more energy in calling than she did in pushing on, occasionally falling into a deep drift and remaining there for some time before she made an effort to extricate herself. Who it was answering her in the fast darkening night she did not know. All she knew and felt with every living cell of her being was that in the cold desolation that was submerging her, the thing that was answering her could save her from the unthinkable horror of being alone.

Her strength ebbed fast from her limbs, only the steady nearing whinny made her last efforts possible. Then suddenly, much sooner than she expected it, a black object appeared in the darkened snows before her. The last whinny was more distinct than any of the others. Before her, struggling toward her as she had been struggling toward him, was the black colt. If Queen had had any strength left, she would have bounded off to the side, but she could not move.

IT did not take her long, however, to learn that the black colt had not come to molest her. Where he had been, how he came there, or that he might all this time have been following her, did not concern her. His whinny was most conciliating and in the warmth of his body was comfort and salvation. He was almost as completely worn out as she was. She rallied enough strength to kick the snow from her legs so that she could lie down. Whinnying all the while, he cleared a space beside her and there they spent the howling night.

(Continued next week.)



The Coach
\$1525

Freight and Tax Extra

A Hudson for Every Need

The Greatest Super-Six Values of All Time

Hudson has outsold all fine cars for eight years.

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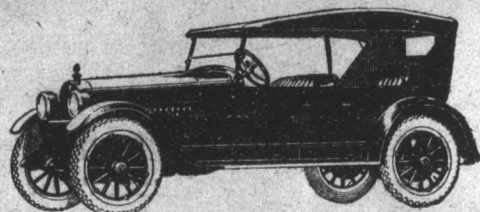
The four models cover every motoring requirement.

For those who love the freedom of the open car, where are such values as the Speedster at \$1425 or the 7-passenger Phaeton at \$1475?

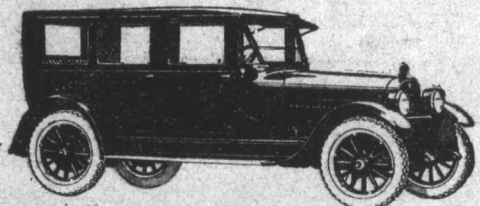
The Hudson Coach gives every closed car utility and comfort at little more than the cost of open models. An ideal car for year round service.

The Hudson Sedan, all aluminum body is built by Biddle & Smart, famous custom body builders. Their production is now entirely devoted to this one body.

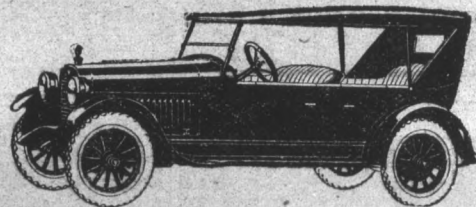
All Hudsons have the new Super-Six motor. All possess unusual attractions of price and quality.



The Speedster \$1425
Freight and Tax Extra



Hudson Sedan \$2095
Freight and Tax Extra



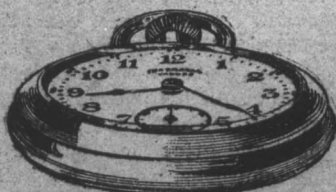
7-Pass. Phaeton \$1475
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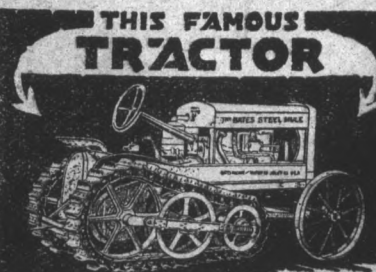
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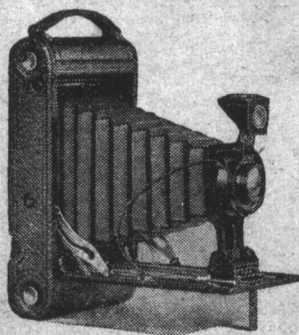
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The Congress of Old Age

Our Weekly Sermon—By N. A. McCune

I DO not know how many of the readers of this department in the Michigan Farmer are old people. But one may suspect that a proportion at least, of them are, and it may not be amiss to stop and consider a few of the victories that old people have attained. Sometimes grandfather thinks that he is in the way, in this bustling age. His ideas are outworn, he is not always in sympathy with the way things are done now, and he is called an old fogey. The story of Abraham, which is the subject for the Sunday School lesson this week, is the story of a very old man who retained the spirit of adventure, up to the last.

And it is the spirit of adventure that keeps one young. When Abraham was old he undertook an adventure from which many younger men would have shrunk. He went out into a new country. He pioneered. He may not have gone in a prairie schooner, as the fathers did seventy-five years ago, but his caravan of camels was just as picturesque. "By faith Abraham, when he was called, obeyed to go out unto a place which he was to receive for an inheritance; and he went out, not knowing whither he went." To the last, he retained somewhat of the fire and spirit of youth.

One of the most widely known ministers in Great Britain is Doctor John Clifford, pastor of Westbourne Park Baptist Church, London. For forty years he retained the active leadership of this great congregation, and only became pastor emeritus five years ago, at the age of eighty. He is now eighty-six. For half a century he walked ten miles every day to keep up his health. He says he can't walk quite that far now, but he is continually at his work, writing and preaching. Bishop Samuel Fallows, of the Reformed Episcopal Church, died last year at eighty-seven. When he was eighty-five, he was still active and vigorous. He walked two miles every day and took calisthenic exercises, to maintain his health. He had been a tremendous worker all his life. He went through the Civil War. The editor of the health department in the Chicago Tribune wrote of Bishop Fallows as he was at eighty-five as follows: "Whoever you are, I hope you will be as straight in body, as square shouldered and as firmly muscled at fifty as Bishop Fallows is at eighty-five. I could wish you nothing better than at sixty your mind will be as clear, your judgment as straight, and your capacity for sustained attention and emotional flights as good as that of Bishop Fallows at eighty-five. Few men at sixty work as hard, take fewer vacations, or stand up as well as does this clean-living man of eighty-five."

Not long since, a man who was at the time ninety-nine years of age was taking the course at Hamline University, and expected to graduate the year he was one hundred. Suppose we look at this matter of old age from the standpoint of the mind. There are vast treasures of the mind which only age can compass. Here are a few instances of men who became old in body, but who refused to allow the mind to lose its edge. At seventy-eight, Doctor Samuel Johnson was still writing. Sir Isaac Newton, the astronomer, was working at the stars at eighty-three, and Thomas Scott was beginning to study Hebrew at eighty-six, while Von Humboldt, the scientist, kept up his old pace of work at ninety. Some of the most renowned statesmen have done their best work when many men are sitting around the fire, and reminiscing. Gladstone was prime minister at eighty-four, and fighting for home rule for Ireland. George F. Hoar, of Massachusetts, was in the United States Senate when past seventy, and began his "Memories of Seventy Years." One of the outstanding examples of men who are alert and still growing, are two university presidents; one is Charles W. Eliot, formerly president of Harvard, the other William F. Warren, formerly president of Boston University. Doctor Warren is eighty-nine. When he was eighty-seven he wrote a long article for a magazine. I wrote him, congratulating him that he was still enjoying good health, and using it as of old, for the public good. He replied, with a very characteristic letter.

OF course, it would be rather presumptuous for me to give advice as to the attainment of old age. I may be dead before strawberry time. But in general it may be said that the inner state has much to do with the attainment of a happy old age. A clear conscience, peace of mind, belief in the goodness of God, have not a little to do with the vigor of body and mind. Many instances of hale old age confirm this. One ought to be always growing. The body stops, gets tired, acts up like an old watch, but the spirit refuses to yield. When John Quincy Adams, the sixth president of the United States, was past eighty, he met a friend on the streets of Boston. "Well," said the friend, "How is John Quincy Adams today?" "John Quincy Adams," said the aged statesman, "is very well and happy, but the body in which he lives is pretty well worn out. I suspect he will be moving out, one of these days, into a better and more satisfactory abode." There are some men who never do get old, and you can't kill them off.

Not long ago a newspaper man began looking into the matter of old age in and about Chicago. He found Henry Rose, for instance, past eighty, going to his work as barn boss of a large company, every morning at five o'clock. Another man, born on a farm, is at his office every day at eight o'clock. He is a surveyor, and is ninety-one years of age.

The psychologist says that the structure of the brain is such that new ideas are possible almost up to any age. People do not need to live in the past, because they are of advanced years. One may still go on learning and doing.

SUNDAY SCHOOL LESSON FOR
APRIL 8.

SUBJECT:—Abraham, the Hero of Faith. Gen. 12:1-25:8; Heb. 11:8-19.
GOLDEN TEXT:—Abraham believed God, and it was reckoned to him for righteousness. Rom. 4:3.

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Rural Health

By Dr. C. H. Lerrigo

The School Nurse

An Expense or an Investment

ONE of the most interesting letters that has reached me in many months is from a reader in a Michigan county who wishes some information about the school nurse in rural districts. The writer is evidently a very intelligent woman, a leader in her community, and a thinker who is not disposed to do things just because others do. She agrees that the school nurse is all right in city tenements. "But," she says, "do not farmers of the class we have here—no foreigners—know enough to take care of their own children, in the pure air and the healthful surroundings of the country?" She adds that the grange is against the measure as an expense that will increase taxes, and is not a real necessity.

I can write from real experience for I have made personal investigation of rural schools and rural health. I am glad to agree that there are some parents who do know enough to take care of their own children; but I am also obliged to insist that they are a minority rather than a majority, and I venture the assertion that this is true of the enterprising community in question. This is easily demonstrated by very simple tests. Find out how many parents provide a tooth brush for each child in the family and insist upon its regular use. Ascertain how many parents know how to provide a well-balanced, appetizing lunch for the child to take to school. How many parents are sufficiently well informed to know when a child should be kept out of school because of illness, and how to prevent such illness spreading through the family and to other children? These are simple tests, yet more than half of the people of your neighborhood will fail in them.

Why should we tax ourselves for their ignorance? Looking at the matter from a selfish standpoint, you are obliged to do it for the protection of your own children. Your children will get the same diseases that come to the ignorant ones, and your children will be held down to their grade of hygiene and sanitation.

Looking at the employment of the school nurse from the standpoint of an investment, I say that a community can make no better, regardless of its degree of enlightenment. Why do children go back to the same grade year after year? In many instances it has been found that this very expensive procedure has been because of simple physical defects that a school nurse will soon clear out. The dull child is examined by the nurse and found to have poor hearing or defective vision. Think of the tragedy of a child being turned back, year after year, with the stigma of dullness, when the facts have been simply that the poor youngster could not hear the teacher or could not see the blackboard. Such things have happened often enough before the days of the school nurse. Think of the under-nourished children who used to do so poorly in school, but are now relieved of their physical handicaps and are able to keep up with their work and take real pleasure in their school life. Think of the way epidemics of sore throat and diphtheria used to go unchecked until, perhaps, it became necessary to close the school. These things are becoming rare in the communities in which school nurses are employed.

I hope that many members of the grange will read this and that they will be very favorably inclined to school nurses. I know of one county that employs such a nurse at a total expense of \$3,000 per year. The population is 11,000, practically all rural. Their assessed valuation is \$36,900,000.

LIMIT OF MOTHERHOOD AGE.

I am a woman of fifty-five. Have been married before but my husband has been dead fifteen years. I am thinking of getting married again and I wish you would tell me if women of my age ever have children.—H. O.

The chance is not worth considering. The bureau of the census shows a few births of children to mothers of fifty-five and past, every year. I observe, however, that these are almost always among the foreign and illiterate population, and I believe that the reports come from women who do not know their own ages. The greatest age of motherhood that has come under my personal observation is fifty-one.

ENLARGED GLANDS.

Should I have enlarged glands, that are said to be caused by tuberculosis, removed by operation, or is there any chance that they will get well without?—J. G.

It is never advisable to operate in such cases if a cure can be effected by other measures. The best authorities now treat such cases exactly as they do other forms of tuberculosis, with rest in the open air, nourishing food and general building up of the body. This treatment gives good results. It is only in certain very special cases that surgical operation is the proper thing to do.

EFFECT OF CITY WATER.

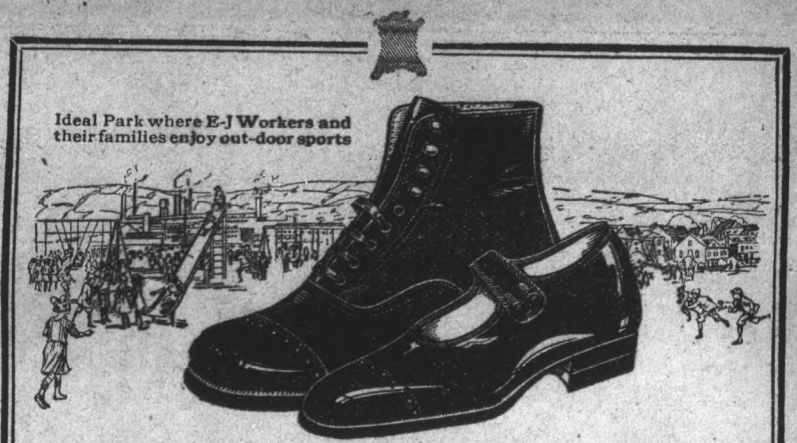
Might city water have anything to do with looseness of the bowels, where the water is chlorinated? When I visit the city, and stay at a home where well water is used, I have no trouble; but if I drink the city water it always upsets me.—J. B.

Some people have an unusual idiosyncrasy for chlorine and might be susceptible even to the small amount used in chlorinating city water. In such cases a good measure is to boil the water for a long time. Practically all of the chlorine is thrown off in this process, and after the water is cooled and aerated it is quite palatable.

RUPTURED LIGAMENT.

Last September I fell and injured my back. Doctor diagnosed the trouble as ruptured ligament and said it would heal in a short time. There is little improvement and I wonder if there is any danger of developing into cancer or tumor?—H. A. H.

I see no reason to fear that a tumor will develop, but you should be getting better. Have another examination. Go to the best doctor you can reach and impress upon him the fact that you want a very thorough examination. This should include an X-Ray to see if any of the pelvic bones were broken, and it should also take in every organ of the body. Are you sure that your ailments are due to the fall? Might they not have been present before, and the fall simply served to bring them into prominence. Get a thorough examination to make sure.



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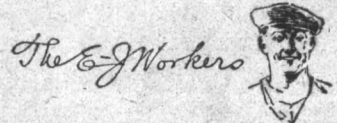
Because from the first, the best workers, the best material and the best workmanship were our standards, everybody wanted our shoes. The result is that now we have to make 32,500,000 pairs a year to supply the demand.

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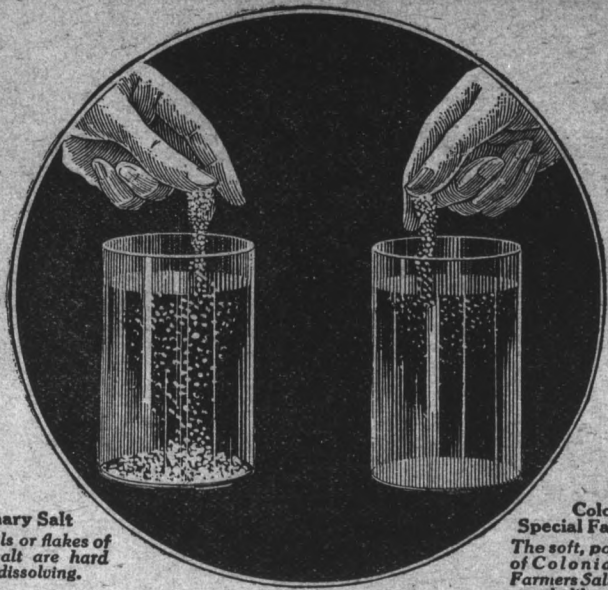
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The crystals or flakes of ordinary salt are hard and slow dissolving.

Colonial Special Farmers Salt
The soft, porous flakes of Colonial Special Farmers Salt dissolve instantly like a snowflake.

The strange difference in salt—how to judge

Why the kind that dissolves instantly and completely is best for all farm uses

Salt is not just salt. There is a world of difference. Ordinary salt is made up of either hard, granular, non-porous crystals, or flakes. Both forms are slow dissolving and do not give best results.

Colonial Special Farmers Salt is the only salt of a soft, porous, flaky texture. That is why it is the "quickest dissolving salt in the world." This is the kind that you should use wherever salt is called for.

It is pure salt, entirely free from moisture and its soft fluffy flakes do not cake like ordinary salt.

For Butter Making—Cooking—Baking and all farm uses



The Ideal Butter Salt

Put up in 70-lb. bags of lined material that makes fine toweling.

Colonial Special Farmers Salt is more economical because a 70-lb. bag is as big as a 100-lb. bag of ordinary salt. Best for cooking, baking, meat curing, butter making and table use.

Ask for Colonial Special Farmers Salt by name. Dealers everywhere who know the difference in salt are glad to recommend it. On request we will mail free our new booklet, "Meat Curing and Butter Making on the Farm."

THE COLONIAL SALT COMPANY, Akron, Ohio
Chicago Buffalo Atlanta

COLONIAL SPECIAL FARMERS SALT

For Stock Salt, Use Colonial Block Salt
Smooth—Hard—Lasting—Won't Chip
Made of Evaporated Salt

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Hardy, Northern grown, best stock. Also fine line Raspberry, Blackberry, Dewberry Plants. Largest stock Grape Vines and Fruit trees. At lowest prices. Plants are large, heavily rooted and thrive readily. Produce big yield of choicest fruit. You can make up to \$1000 an acre from these plants. Write for free catalog and prices. Don't delay; write today. H. CLAY GLOVER, V. S. RR. 3, Bridgman, Michigan



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32 page book—how to keep your dog well—how to care for him when sick. Result of 35 years' experience with every known dog disease. Mailed FREE. Write today. Dept. 3104 H. CLAY GLOVER, V. S. 129 West 24th St. New York

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RUB-NO-MORE CO. FORT WAYNE, IND.

SOFTENS HARD WATER

The Best Helper To All Farmers' Wives.

Cleanses, purifies and sterilizes milk cans, crocks, dishes and other farm utensils with the greatest ease! Saves half your soap bill! Ask your grocer for R. N. M. White Naptha, the perfect laundry soap!

SAVE THE TRADE MARKS



Women's Interests



Hats That You Can Make

These Stylish Spring Models are Easily Constructed

DEEP planted in the heart of every normal woman, is a love for the beautiful. This is the primary reason for her love of beautiful clothes. She likes the wearing of lovely garments, first, because the garments themselves are beautiful, and secondly, because they enhance her own good looks.

Our hat pattern service has been designed to aid women in the fascinating work of creating her own hats, charming individual hats to match her every mood and costume.

Because of the economy of using these patterns, she may have four good hats at the ordinary cost of one mediocre one. No one who is willing to spend a few hours in interesting work, need ever wear a homely hat again. Only send twenty-five cents for hat

Materials required are one soft crown, half-yard of willow or buckram, scraps of silk for flowers, one lining, one and one-fourth yards of eighteen-inch material or three-quarters of a yard of thirty-six-inch material, three yards brace wire.

No. 2132—The facing of today's model is heavily embroidered in pearl beads and white angora yarn. The brim is cut wide and square at the sides in such a way as to give decided flair and an effect of the unusual. Wooden beads in blended colors may be substituted for the pearl beads if color is desired. Dull blue, rose, jade, beige and brown beads may be used on a navy, brown or sand colored hat. Gros de londre hair cloth, moire or canton are effective materials.

Materials required are one soft



pattern with directions, to Hat Pattern Dept., Michigan Farmer, Detroit, Mich.

No. 2120—The entire brim of Pattern No. 2120 is covered with silk petals. This gives an unusual and ornate effect to an otherwise tailored poke, and the petals are perfectly simple to make. Using black or navy for the hat and geranium, flame or jade for the petals and underfacing makes a more elaborate looking hat.

Materials required are one crown, one and one-half yards of thirty-six-inch material, or three-quarters of a yard for top of hat and three-quarters of a yard for petals and facing, three-eighths of a yard of buckram or willow, one lining, three yards of brace wire.

No. 2122—For any woman who likes to do embroidery or fancy work, the making of the hand-made flowers and the construction of Hat No. 2122 will prove an interesting task. Caton crepe, crepe de chine, taffeta or straw cloth are materials admirably adapted for use on this design. The brim is cut square in the back and droops only enough to give a becoming line.

crown, half-yard of elastic net or buckram, one yard of thirty-six-inch material, one lining, three yards of brace wire, beads, yarns.

No. 4009—For the woman who wants a small hat but has a wide forehead or wide cheek bones and cannot wear a hat without corresponding width, we suggest Model No. 4009. The brim is cut in two sections which extend on each side in irregular points.

Materials required are one soft crown, seven yards of straw braid, half-yard of cinoline or dressmakers' canvas, half-yard of thirty-six-inch material, two quills, three yards of brace wire, one lining.

No. 4014—Model No. 4014 has a shaded brim and narrow back, which gives irregular and becoming line, as well as making it practical for wear with the high collared coats. Black with jade top crown and edge and vividly colored flowers is the most subdued combination possible in making it. Purple and wistaria shades, tulip red, dull orange and leather or begonia shades (Continued on page 501).

Helpful Housecleaning Hints

By the Prize Winners

HOUSECLEANING time! Speak those two words to husband and see how quickly he has some pressing duty to do out by the barn. When the general cleaning begins, the regularity and routine of the home is so very much disturbed that it is a task for each member of the family to keep calm and composed in the midst of the disorder. But there is a great feeling of satisfaction to all when we sit down of an evening, knowing that the house is clean from cellar to garret.

Many friendly letters were received in the contest this week that gave some very good tried and true hints and methods of attacking this work, to put into practice at housecleaning time. Because of limited space, I can print only the two leading prize winners this week.

First Prize.

Mrs. H. H. S., St. Johns, Michigan.

Nothing is better than gasoline to clean badly spotted hardwood floors. Wet a piece of soft cloth with gasoline and rub the surface of the floor vigorously, changing the cloth as soon as it becomes much soiled.

To remove wall paper use a heaping tablespoon of saltpeter to one gallon of hot water and apply to the paper with a brush. The water should be kept hot and applied several times. The paper will loosen and can easily be pulled from the wall.

When you are ready to clean floors take a piece of board large enough to hold pail and bore holes near the corners and insert casters, set your pail on this and it will save a lot of lifting.

To clean gilt frames apply the white of an egg with a soft brush. When dry rub gently with a soft cloth.

A little turpentine poured into corners of wardrobes, trunks and chiffoniers will keep moths away.

Try using a solution of alum on your rugs and carpets. You will be surprised how it will brighten them up.

To remove marks made by scratching matches on a painted surface rub with a cut lemon.

To clean rugs or carpets beat on a set of bed springs or sprinkle a spot of grass as large as rug, then turn rug upside down and beat. Move to another dampened spot and beat on the right side.

To remove ink spots from varnished surface use equal parts of vinegar and linseed oil, well mixed, and apply with soft cloth.

Try this good furniture polish: Two parts paraffin oil, one part gasoline, mix well and add a tablespoon of turpentine to each quart of liquid.

Second Prize.

Mrs. E. G. W., Grand Rapids, Michigan.

To dust wicker furniture and iron-work, dip old shaving brush in oil. It reaches in places difficult to reach with a cloth.

To repair a chair seat when cane gives out, cut a piece of inlaid linoleum two inches larger than opening in chair, paint a leather brown on top and edges, let dry for two days, put on with upholstering tacks.

To size rugs: Take one gallon hot water and one quart of powdered dry glue; keep on stove until glue is dissolved. Stretch the rug or carpet and tack wrong side up on the floor. With a whitewash brush go over it with the hot solution, being careful to wet it evenly, especially the edges.

Paper should be put under the edges of the rug to protect the floor. Leave rug tacked until dry.

An old ingrain or brussels carpet can be made new by a few packages of dye. Dissolve the dye in a gallon of hot water to one package, and while hot put on the carpet with a brush.

Mrs. W. C. S., Grant, Mich.; Mrs. R. L. B., Ovid, Mich., and Mrs. V. C., Sullivan, Mich., won third, fourth and fifth prizes respectively.

HATS YOU CAN MAKE.

(Continued from page 500).

are adaptable for its development.

Materials required are one soft crown, three-quarters of a yard thirty-six-inch material, one lining, half-yard of buckram or willow, three yards of cable wire, flowers.

No. 4007—Folds of canton crepe and narrow straw braid are used for the brim of Model No. 4007. The four-section crown has alternate sections of braid and crepe. A rosette of folds is in harmony with the brim and design and forms the only trimming used.

Materials required are one soft crown, one lining, half-yard of elastic net or willow, three-quarters of a yard of thirty-six-inch material, twelve yards of one-inch braid, three yards of brace wire.

No. 2114—Hat Pattern No. 2114 has a short back brim which droops becomingly and a soft high crown which adds the height which the brim cuts. Hand-made flowers, which are easily made, and a most effective trim wreath the brim and side crown. Canton crepe, taffeta, or straw cloth are appropriate materials. Fabric and straw cloth are used in combination in the hat illustrated.

Materials required are one soft crown, three-eighths of a yard of willow or buckram, one lining, three yards of cable wire, one and one-eighth yards of thirty-six-inch material or three-quarters of a yard of straw cloth and half-yard of thirty-six-inch silk.

No. 152X—In Model No. 152X, narrow velvet ribbon circles the crown in loops and in a band which is finished with a bow and long ends. Made in canton crepe, crepe de chine or straw cloth, it is wonderfully pretty. For the little tot, it may match the new coat in color, have a facing of lace ruffles with tiny flowers in pastel shades.

Materials required are one lining, three-eighths yard of frame material, four yards of straw braid or lace, one soft crown, five-eighths of a yard of thirty-six-inch material, ribbon.

No. 2131—For the girl who is fastidious about her clothes but has a limited income, embroidered hats are the thing. The wonderful color combinations possible make the hat appropriate for wear with many different frocks. Nile green, king's blue, dull purple, tango and gold are good on a black, navy or brown hat.

Materials required are half-yard of soft canvas, three-quarters of a yard of thirty-six-inch silk, yarns or embroidery silk, two yards of French or lace wire, one lining.

No. 2121—Hat Pattern No. 2121 is designed especially for the girl with a full face. The brim which is narrow in the back lifts in front to form a background for flat hand-made morning glories in bright colors. This height in front adds to the face oval and counterbalances too much width. Straw cloth, canton crepe, or taffeta are good materials to use.

Materials required are one and one-eighth yards straw cloth, for top and crown, or five-eighths yard of thirty-six-inch cloth, half-yard of eighteen-inch fabric for the facing (satin or taffeta), scraps and embroidery thread for flowers, one soft crown, one lining, three yards of cable wire, half-yard of elastic net or willow.



Serve Raisin Food
Raisin Week
—April 23 to 29

Feed Them Like This

NOW the call on farms is for all men's energies, and the one source is the food they eat. So be particularly careful of those you choose—select the *energizing* ones.

Raisins Rich In It

Raisins are the leading fruit in energizing power. They furnish 1560 calories of energizing nutriment per pound.

A pound of eggs supplies only one-half as much. Few meats equal raisins in this respect.

Raisins therefore should be served frequently to your men folks and their help.

A luscious raisin pie, for instance, is ideal dessert. It revives tired men almost at once, because the raisin's sugar is in practically predigested form and its energy goes quickly to the blood.

Furnishes natural food-iron also which the blood needs every day.

Men like these delicious pies that so effectively renew them. You can serve them at least twice a week.

Try the recipe we print here.

Sun-Maid Seeded Raisins

Get delicious Sun-Maid Seeded Raisins, big plump, tender, juicy—best for pie.

Insist on Sun-Maid Raisins, the kind you know are good.

Your retailer should sell you Sun-Maid Raisins for not more than the following prices:

Sun-Maid Seeded (15 oz. blue pkg.)—20c

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Sun-Maid Seeded or Seedless (11 oz. pkgs.)—15c

Seeded in Tins: (12 oz.), 20c; (8 oz.), 15c

Mail coupon for free book of tested Sun-Maid recipes.

Sun-Maid Raisin Growers

Membership 15,000

Dept. B-2504, Fresno, California.

CUT THIS OUT AND SEND IT

Sun-Maid Raisin Growers,
Dept. B-2504, Fresno, Calif.

Please send me copy of your free book, "Recipes with Raisins."

NAME

STREET

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A great morning fruit dish is stewed raisins served with cream. Rich in energy and iron. A fine laxative effect.

Raisin Pie

Two cups Sun-Maid Raisins, 1 1/2 cups boiling water, 1/2 cup sugar, 2 tablespoons cornstarch, 2 tablespoons lemon juice, 1 tablespoon grated lemon rind, juice of 1 orange, 1 tablespoon grated orange rind, 1 cup chopped walnuts.

Cook raisins in boiling water for five minutes, pour into it sugar and cornstarch which have been mixed. Cook until thick, remove from fire and add other ingredients. Bake between two crusts. Walnuts may be omitted if desired.

All measurements for this recipe are level.



Blue Package (Seeded)
Best for pie and bread.



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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 260-283 egg Pedigreed Males from Funk Farm direct.

Hundreds of Customers Report Big Profits

E. I. Beebe, St. Charles, Mich. writes: My 100 hens laid 198 eggs each and I made over \$300.00 clear profit last year.

Wm. Vivant, Harbor Spring, Mich. writes: We got 3528 eggs in January from 180 pullets.

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

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.....\$1.300
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.

MEADOW BROOK FARM



CHICKS ENGLISH WHITE LEGHORNS, BROWN LEGHORNS (Holland Importation Strain) 50, \$7; 100, \$13; 500, \$62.50; 1000, \$120. BARRED ROCKS, REDS, BUFF LEGHORNS, 50, \$8; 100, \$15; 500, \$72.50; 1000, \$140. WHITE WYANDOTTES (Heavy Laying Flocks) 50, \$9; 100, \$17. Postpaid, full live delivery guaranteed. All flocks composed of Selected Heavy Layers. Order now from this advertisement and get them when you want them. I have been producing good chicks successfully for the past 20 years and KNOW HOW. I want your business and will try hard to please you. Free Catalog. Bank Reference. Meadow Brook Farm, Henry De Pree, Proprietor, Route 1M, Holland, Mich. Member Mich. B. C. A.

Baby Chicks

Barred Rocks, R. C. Rhode Island Reds, Anconas, White Leghorns, (English Strain.) These chicks will mature early and give November and December eggs. Our price is low for the quality of chicks we hatch.

Petersburg Hatchery

PETERSBURG, MICHIGAN



Pure Blooded Baby Chicks

Poultry Foods and Everything Necessary for Poultry Raising. Write for free catalog and price Monarch Sales Co.

Marion, Ohio — Home of the President

Sturdy Michigan Chicks

From the largest baby chicks center in the world. White Leghorns exclusively. Get our low prices. Safe arrival guaranteed. We put all our effort into one breed. Write today. Suburban Hatchery, Zeeland, Michigan.



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.

CHICKS 12 Leading Breeds

Free range, purebred, heavy laying flocks. Instructive catalog free. Prices right. Ransom Farms, Box 6, Geneva, O.

QUALITY White Leghorns, Barred Rocks, DEAN CHICKS, Anconas, 5000 culled breeders. 12 yrs. experience. New Smith Egg 40,000 egg hatcher. Member Baby Chick Ass'n. Send for Folder C. and Farm & prices. BIG BEAVER, Michigan Hatchery

5 to 6 lb. White Leghorns

Larger hens, better winter layers. Send for free catalog full of information. A. W. WAUCKER, Gobleville, Mich.

QUALITY CHICKS AT LIVE AND LET LIVE PRICES \$10. PER 100 AND UP



From Excellent Paring, Heavy Laying flocks unlimited range. Well-Hatched, Sturdy Healthy Chicks in following varieties: Tom Barron English White Leghorns, 50, \$7; 100, \$13.00; 500, \$62.50; 1000, \$120.00. Park's Barred Rocks and Rhode Island Reds, 50, \$8; 100, \$15; 500, \$72.50; 1000, \$140.00. Extra Select flocks headed by Mich. Ag. College cockerels (Dams records from 230 to 270.) White Leghorns, 50, \$8; 100, \$15; 500, \$72.50; 1000, \$140.00. Delivered Right to Your Door By Insured Parcel Post. 100% live delivery guaranteed. Order Now and from this ad as many we're disappointed last year. Profitable Catalog Free. Bank Reference. Lakeview Poultry Farm, Route 8, Box 8, Holland, Mich.



TIMMER'S HATCHERY

Hardy, healthy Chicks from selected heavy laying flocks. Wh. & Br. Leghorns, 50, \$7; 100, \$13; 500, \$62.50; Anconas, 50, \$7.50; 100, \$14; 500, \$67.50. Barred Rocks and Reds, 50, \$8.50; 100, \$16.50; 500, \$80; postpaid, full live delivery. Bank Reference. Free Catalog.

TIMMER'S HATCHERY, Route 3B, Holland, Michigan



Big Value Baby Chicks

Are Guaranteed to Live. 12 popular breeds—easy to raise, husky, healthy, vigorous. Write today for free catalog showing many breeds in full colors.

OHLS POULTRY YARDS and HATCHERY

Box 6, Marion, Ohio



Good Chicks--Fair Prices

Barron Type W. Leg. B. Rocks, S. C. Reds, Pedigreed Chicks from M. A. C. cockerel mating. Utility grade from pure-bred, heavy-laying, free range inspected flocks. Pullets laid at 4 mos., 20 days last year. Guaranteed delivery. Big discount on March orders. Instructive catalog. Bank Ref.

MICHIGAN HATCHERY & FARMS, Box C, Holland, Mich

OUR BOYS AND GIRLS

Found In Our Letter Box

Letters from Pals for Our Correspondence Corner

Dear Uncle Frank:

You cannot imagine how pleased and surprised I was when I received the Merry Circle button and membership card. I thank you ever so much for them.

My little dog came to meet me with the letter in his mouth. Mamma gave it to him to meet me when I came from school. I was so anxious I sat right down and wrote to you. I am glad I am invited in your Merry Circle. My button is surely beautiful. I will be pleased to wear it every day.

I will close. Your loving niece, Lora Vroman, Durand, Mich., R. 3.

Your letter sounds as if you will be

that letters get to it without being addressed to it. I am glad you like club work.

Dear Uncle Frank:

I have written you three times before but nothing printed yet. It's three times and out, they say. Say, I tried Bontia O'Dell's candy recipe and it sure was fine.

I think Harold Coles sure put in a dandy. I don't care, because I don't wear knickers nor powder nor use rouge.

I thank you for the Merry Circle button and membership card.

Well, I guess this will be enough for this time.—Your niece, Beatrice Chelli, Pellston, Mich.

There certainly is a difference in opinion about this knicker and bobbed hair business. I would like to try some of that candy myself.

Dear Uncle Frank:

I believe there is a mistake somewhere (not that I like to say that you make mistakes), but in the first question you said the answer was fifty out of every hundred, and when I found the answer in the Michigan Farmer it said fifty out of every one thousand. Will you please look up the mistake?

Say, I don't see why the girls and boys jangle over being the smartest. There are smart boys and there are smart girls. This club will never amount to anything if the members are always quarreling about who is the smartest. Who is on my side? Why don't you be jolly and peaceable?

Well, I guess I will close my "mouth-piece."—Your nephew, Herbert Estes, Webberville, Mich., R. 3.

This just goes to show that I make mistakes once in a while. You and many other boys and girls were right in bringing that to my attention. I disagree with you about the club members. I think they are quite a jolly bunch.

Dear Uncle Frank:

I received a Merry Circle button and was very much pleased with it. Thank you.

Uncle Frank, I have half a notion to accuse you of setting a bad example. Your slick way of getting out of printing your picture in the paper tick-



Robertha Bisson, Hubbell, Mich., and Her Trained Canary.

a loyal Merry Circler. That's the kind that will help make the Circle grow.

Dear Uncle Frank:

I am writing to thank you for my Merry Circle pin and membership card. And tell you about the first skunk that my brother and I caught.

A few years ago my brother and I set some traps at a hole on a sidehill. A few days after we had something in it. We did not know what it was. When we killed it we soon knew what it was. After it was dead we started for the house. Before we got there had it inside of my overalls and you can imagine what they were like. I have caught lots of them since and know better than that now.

My letter is getting long, so I will close.—From a nephew, Manston Atkins, Davison, Mich., R. 1.

It looks as if you learned from experience how to handle skunks. Experience is a great teacher, all right.

Dear Uncle Frank:

I want to thank you for my pin and my pencil. I didn't think I would win the first time I tried for a prize, but I use my pencil every day and wear my pin on my coat.

I think a contest on goodly deeds of the past week would be a good contest, and see how good we can be.

For summer sports if you like fishing just come and visit us this summer. We have a river running through our farm and lots of beauties in the trout line. Just come and try it once.

Now, I hope the old Easter Rabbit is good to all my cousins, and awfully good to my Uncle Frank. Greetings to all, Marguerite Stephens, Freesoil, Mich.

Your contest idea is good. Will use it some time. Your fishing invitation also sounds good. I haven't coaxed trout to bite for so long I think I would hardly know how.

Dear Uncle Frank:

I guess I will try my luck again. It's my fourth letter, but I suppose the others deserved it and were delivered to the basket. But I am sure I did not have the basket's address on the letters.

I like the club work and am making a dress now. I can do some darning and patching, and want to know more about sewing.

Well, as the others like to have their letters published, I will close.—A niece, Frances Le Forge, Ypsilanti, Mich., R. 5.

The waste basket is so well known



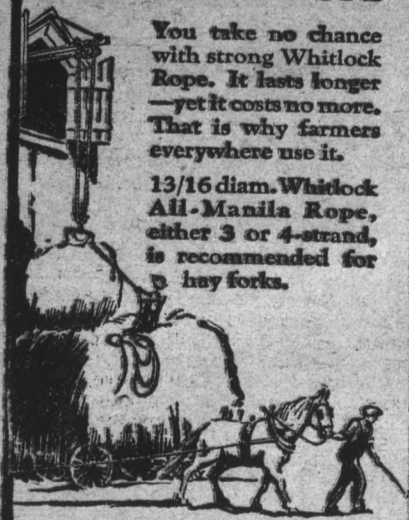
By a Merry Circle Artist.

led me so that when, a few days afterward I got a letter from a boy with whom I correspond, asking for a picture of me, you can guess what happened. I followed your example and sent him a picture of myself taken when I was ten months old. I haven't heard from him since and that's been weeks ago and he was, formerly, a very faithful correspondent. But I console myself by thinking that a person who can't take a little fun in good part is a poor sort, anyway. Don't you think so?

Well, I must stop, immediately if not sooner.—Yours accusingly, Ira Cryderman, Twining, Mich.

I agree with you but I honestly believe that the young man was much disappointed. Glad you like the button.

Put in your hay with the aid of WHITLOCK ROPE



WHITLOCK CORDAGE COMPANY
46 South Street, New York

POULTRY

Baby Chicks

from Strains you know!
What kind of chickens do you want to raise? If you want pure bred poultry, bred for high egg production, poultry that will show you a profit and give you the best of satisfaction, then you should buy baby chicks from us.

MILLER QUALITY GUARANTEED
We have been in the poultry business for the past thirty-five years and have hundreds of thousands of satisfied customers. Perhaps you have bought poultry, baby chicks or eggs for hatching from us during the past thirty-five years, and if you have, then you know the quality of our stock.

FROM HEAVY EGG PRODUCING STOCK
Our baby chicks are hatched under ideal conditions from parent stock that are guaranteed, and we ship nothing but strong healthy baby chicks that reach you in good condition and live. We guarantee 100% live chicks delivered to you. Miller Strains are winners at many egg laying contests, and if you want the best at the lowest possible price, guaranteed in every particular, write for our price list and catalog. Box 2
J. W. MILLER CO.
2500 Latham St. Rockford, Ill.

BABY CHICKS

BEST PAYING, HEAVY LAYING, PUREBRED Tom Barron English White Leghorns, S. C. Rhode Island Reds, Park's Barred Rocks, STAMPS HEALTHY CHICKS hatched from greatest and best incubator known. Chicks are given full twenty-one days and hatched under proper temperature.
Mr. Frank Falkerson, Miles, Mich., writes as follows: "From the 66 pullets we raised from your stock last year along with the thirty which we had, we got 1630 eggs in December. Can you beat it?"
We are the first and oldest importers of White Leghorns in this state. Watch our pen number 12 in the Michigan Egg Laying Contest. It's Coming Strong!
All stocks 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.

CHICKS \$10.50 AND UP (From Hogan tested hens)
Wh. Leg. & Buff Leghorns, 50, \$1; 100, \$1.50; 500, \$7.50. Bar. Rocks, Anconas, 50, \$1.50; 100, \$2.50; 500, \$12.50. Red, W. B. Rocks, Anconas, 50, \$1; 100, \$1.50; 500, \$7.50. Buff Orpingtons, W. Wyandottes, 50, \$1; 100, \$1.50; 500, \$7.50. Mixed, 100, \$1; 500, \$5.00. Order now. Catalog Free. Eggs for Hatching, Ref. 4 Banks. Tri-State Hatcheries Box 512, Atchafalaya, Ohio

White Leghorn CHICKS
Heavy Laying, pure bred, English strain. Chicks culled and tested for laying ability. Strong, healthy chicks, guaranteed to give you five delivery guaranteed. Postage paid. Catalog, low price list free. Write quick.
Catalpa Grove Hatchery, Box 1, J. L. Holland, Mich.

Baby Chicks Selected chicks from the heart of the baby chick industry. Leading pure bred from heavy egg producing strains. Alive delivery guaranteed. Send for catalogue and prices.
L. Van Hoven & Son, Zealand, Mich.

White Leghorn BABY CHICKS of superior quality, from our own breeding pens exclusively. Safe arrival guaranteed. Circular free.
THE MARION HATCHERY, R. 6, Marion, Ohio

Baby Chicks White Leghorn Barron Strain from our own selected stock \$15 per 100 up White and Barred Rocks, Buff Orpingtons, S. C. R. I. REDS.
DURAND HATCHERY, Fenton, Mich.

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

SOME MORE STUNTS.

HERE are the other prize-winning April Fool stunts. They were left out last week because we did not have space. But I think they are interesting enough to use now, although it is past the time to use them.

Several boys have visited me recently at the office. I enjoy these visits very much and am always glad to show how the Michigan Farmer is made. When you come to town, drop in and say "hello."

A few weeks ago, right after my baby picture was printed, I got a very nice poem from Mrs. A. J. Farmer. I would send by mail to Mrs. Farmer my appreciation of the sentiments in her poem, but she did not give her address. So I must let her know in this way that I thank her very much for the thoughts expressed.—Uncle Frank.

The Soap Gum.

My brother Charlie removed a chew of gum my father had laid up for future use and replaced it with a chew of soap looking very much like the gum.

You can imagine the wry face and soapsuds my father produced.—Edna M. Crandall, Stanwood, Mich.

The "New" Tire.

An amusing though not a mean joke, would be this, which we have tried ourselves. Get an old auto tire, wind it with brown paper strips to resemble a new one, and fasten a long wire to it. At night place this tire just a little to one side of the road where the headlights will shine on it. Then conceal yourselves behind some bushes or a fence, keeping hold of one end of the wire. When a car comes along, the people will see the "new tire" (?) and stop to pick it up. Just before they reach it, quickly pull the wire and the tire is out of sight. Then shout, "April Fool." Usually the people will laugh at this joke played on them and get in their car and drive on.—Florence Nelson, LeRoy, Mich.

Fool's Horseradish.

The best April Fool stunt I heard of was when Aunt Mary prepared a dish for Uncle John, of sawdust, a few bread crumbs, a little vinegar, and a dash of salt to spread on his meat instead of horseradish.

As Uncle John was fond of horseradish, and being a little early in the season, of course the spread was soon tested and he found himself fooled.—Alta Swinehart, Edwardsburg, Mich.

The Fallen Handkerchief.

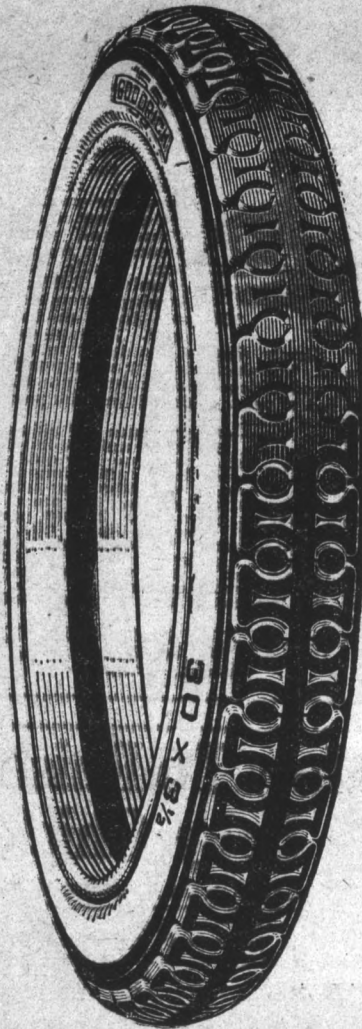
An April Fool trick which affords much amusement is this: Take a handkerchief and pin it on a rug or carpet in a much-used room or tack it on to the floor. Almost every person coming into that room will stoop and try to pick up the handkerchief and then comes your chance for a good laugh. This trick, though it catches many, "April Fools," will not hurt anyone's feelings as some tricks do.—Ida Cryderman, Twining, Mich., R. 2.

The Mud Duck.

I am going to send you one of my stunts. My sister and I made a duck out of mud and pasted feathers on it. Our dog has the habit of killing chickens. We left the mud duck dry until April Fool's day. Then we carried it in the house to show my mother, and I said, "Ma, look, Sport has killed one of our ducks." She was so disgusted she said, "we will have to do something with that dog." She told us to take it outside as it looked half rotten.—Margaret Maturen, St. Charles, Mich.

Says Sam: If everybody who's talking "back to the land" actually went back, what would become of all the manicure girls?

The TIRE that "eats up" hard work



Here's the tire for your small car—the tire with genuine life and fight in it—the kind of tire that simply "eats up" hard work. Buy this 30x3 1/2 clincher fabric and it will wring every cent's worth of real tire service out of itself for you.

It's the biggest value, with the longest mileage at the lowest cost—you pay about half as much as such a tire cost in 1920. Thick, tough, anti-skid tread; heavy sides—made as only Goodrich makes a fabric tire. The fullest measure of quality and every inch of mileage it can hold.

Tell your dealer you want the Goodrich 55 Clincher Fabric Tire—he knows how good it is. He depends on Goodrich for quality just as you depend on him for satisfaction.

THE B. F. GOODRICH RUBBER CO.
MAKERS OF
THE SILVERTOWN CORD

Goodrich "55"

CLINCHER FABRIC TIRE
30x3 1/2 and 30x3

STAR HATCHERY BABY CHICKS

From Select, Vigorous, Approved, Heavy Laying Breeding Stock. White & Brown Leghorns & Anconas, Single Comb Reds.
PRICES REDUCED
Hatched by modern methods in best machines under our personal supervision. Carefully packed and sent Postpaid and 100% live delivery guaranteed. Bank reference. You take no chance in now and get them when you want them.
Star Hatchery, Box 0, Holland, Michigan

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 acceptance and save time. Remit by Post Office Order, Bank Draft, or Certified check. 100% live delivery guaranteed.

THE MILAN HATCHERY
Box 4 Milan, Michigan

WHITE LEGHORNS FREE NOVEL EGG
For 25 to 30 eggs per year. Winners at 30 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 Farm.
GEO. B. FERRIS, 924 1/2 1st St., Grand Rapids, Mich.

GUARANTEED CHICKS Prices low when quality is considered. S. C. Barron Raz. Whites, Browns, Anconas, etc. We have Class A Rocks. We sell no class B but class A chicks. 100% live. 10% down. Postpaid. Bank Ref. Catalog free. Order now.
BOS HATCHERY, R. 2M, Zealand, Mich.

CHICKS from good selected heavy laying flocks of S. C. Buff Leghorns. We keep just the same breed. Write for circular. Winard Webster, Bath, 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 high quality 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.

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. **CLINTON HATCHERY & POULTRY FARMS**, Wilmington, Ohio.

Chicks-Ducklings and hatching eggs from head-to-tail stock. 10c up. Live delivery guaranteed. Poultry ducks, geese and turkeys. Bantams, Canaries, Pheasants, Woodcock, quail, supplies, Seeds. Satisfied customers in 30 states. Write for catalog. **WEIDEL POULTRY FARMS**, St. Louis, Mo.

SUPERIOR CHICKS

We hatch Leading Varieties Standard Bred, vigorous, heavy laying stock. Postage paid. Live arrival guaranteed. Lowest prices. Best quality. Prompt delivery. Send for our large illustrated catalog. **Superior Poultry Co.**, Box 339 Windsor, Mo.

CHICKS. Strongest, healthiest chicks. Hatched from heavy laying and culled flocks. English strain White Leghorns. Write for prices. **Brown's Poultry Farm and Hatchery**, Hamilton, Mich., R. 1.

BARRED PLYMOUTH ROCK Hatching Eggs, full blood \$2.00 per 10. Post paid. **J. A. BARNUM**, Union City, Mich.

POULTRY

CHICKS

You can now send your order for Chicks in 11 breeds of the Pure Breed Practical Poultry that is making egg records in the hands of our customers on their own farms. If you own stock that is guaranteed, stock that will make you real money, send for our description and price list. All stock guaranteed 100% stock 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.

Rosewood Farm Healthy, Hardy Chicks

Well-hatched, carefully packed, and shipped.
Select, heavy laying WHITE LEGHORNS, 50, \$7; 100, \$13; 500, \$62.50; 1000, \$120. Select ANCONAS, 50, \$7.50; 100, \$14; 500, \$67.50. Select BARRED ROCKS, 50, \$8.50; 100, \$16.50; 500, \$80. Postpaid, full live delivery guaranteed. Our Chicks will render you the best of satisfaction and you will COME BACK TO US. We have had long experience in producing good Chicks and our flocks are second to none. Circular free.

Rosewood Farm, R. 12B, Holland, Mich.

WASHTENAW



HATCHERY CHICK PRICES.
following hatches: March 26th and 27th, 50, \$8.50; 100, \$16; 500, \$75. White Rocks, White Wyandottes, 50, \$9.50; 100, \$18; 500, \$85. White, Brown, and Buff Leghorns, 50, \$7.50; 100, \$14; 500, \$65. Postpaid, full live delivery guaranteed. Our chicks are carefully selected and bred for high egg production. Order from this ad.

Reference, Farmer's & Mechanic's Bank.

WASHTENAW HATCHERY,

Ann Arbor, Mich.

JUST-RITE Baby Chicks LOOK!

A Hatch
Every Week
All Year

NABOB HATCHERY, Dept. 15, Gambier, O.

WOLVERINE BABY CHICKS

Are chicks that satisfy.

Bred for egg production 13 yrs. We hatched and shipped chicks for 12 years. This assures you success. English type white and brown Leghorns, 100% safe arrival guaranteed. Write for catalogue. It's free.

WOLVERINE HATCHERY

ZEELAND, MICH. R 2

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.

Hardy Northern Bred CHICKS.
Barron S. O. White Leghorns. Parks' 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.

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.

OTTO SUPERB CHICKS
THAT GROW AND PAY
Vigorous pure-bred flocks on free range. Send for price list on 10 popular breeds. The results of careful breeding and scientific hatching. Chicks, 12c up.
OTTO CHICKERY, INC.
MAGNOLIA, N. J. Box MF62

OTTAWA 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, R-10 Michigan

White Leghorn CHICKS
Write Quick. Free test—Liberal discount on early orders. Write: Farmers 265-270, and 280-285 egg strain transported, pedigreed English-American S. C. W. Leghorns. Heavy Laying. Best Payers. Strong healthy chicks. 100% live delivery guaranteed, p. p. Big valuable catalog free.
STERLING'S GRAND VIEW POULTRY FARM, R. 4, Center Hall, Pa.

Science Finds Way To Stop White Diarrhea

New Discovery Makes It Easy to Raise
All Your Chicks. Chick Keep
Healthy—Make More Money

Through the use of a recent discovery, the dreaded disease, White Diarrhea in chickens, can now be completely controlled. You can raise all your chicks, keep them healthy and vigorous and double your profits.

Mr. Connelly, State Line, Wisconsin, says: "Your wonderful discovery is the best White Diarrhea medicine I have ever used. It is the quickest to stop the disease and absolutely prevents it from starting. Hick's White Diarrhea Tablets are helping me raise more and better chicks than ever. It is so easy to give." Simply dissolve one tablet in a quart of water. The chicks drink it eagerly and even droopy and lifeless chicks quickly go chirping about full of pep. Cannot injure the youngest or weakest chick.

Send No Money—Just your name and address. A card will do. Mr. Hick is so confident that Hick's White Diarrhea Tablets will save your chicks that he will send you two large double strength \$1.00 packages for the price of one. When they arrive pay postman only \$1.00 and postage. Sell one to your neighbor and get yours free. If you are not absolutely satisfied after 30 days' trial, your money will be refunded. Do not hesitate to accept this offer as it is guaranteed by two big Chicago banks, who say that Mr. Hick will do exactly as he agrees without question or argument. Write today before this remarkable trial offer is withdrawn. Address:

CHAS. M. HICK AND COMPANY,
Dept. 817, 1018 So. Wabash Ave.,
Chicago, Illinois.

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 2½ times as much).

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

140 Egg Incubator \$13.25
30 Days Trial
Freight Paid east of the Rockies. Hot water, copper tanks—double glass doors—air space—double glass doors—a real bargain at \$13.25. Shipped complete, set up ready to use.
140 Egg Incubator and Brooder - \$17.75
180 Egg Incubator Alone - 15.75
180 Egg Incubator and Brooder - 22.00
250 Egg Incubator Alone - 22.75
250 Egg Incubator and Brooder - 31.00
Made of California Redwood—last a lifetime. Positively the best value on the market today. Order the size you want direct from this ad. 30 days trial—money back if not pleased. If not ready to order now, don't buy until you get our new 1923 catalog. (3)
WISCONSIN INCUBATOR CO. Dept. 116 Racine, Wis.

\$13.95 Buys 140-Egg Champion Belle City Incubator
Hot-Water, Copper Tank, Double Walls Fibre Board, Self Regulated. \$18.95
\$6.95 Buys 140-Chick Hot Water Brooder. Or both for only \$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. Free Book, Free. Belle City Incubator Co., Box 14 Racine, Wis.

140 EGG Incubator Only \$13.85
Made of California Redwood, covered with galvanized iron, double walls, air space between, built to last for years; deep chick nursery, hot water heat, copper tanks. Shipped complete, set up, ready to run, freight paid.
140 EGG INCUBATOR WITH BROODER \$19.75
260 EGG INCUBATOR, ALONE, ONLY 23.50
260 EGG INCUBATOR, WITH BROODER \$29.30
30 days' trial—money back if not O. K.—FREE Catalog
Ironclad Incubator Co., Box 21 Racine, Wis.

BETTER EQUIPMENT FOR OUR CHICK CROP.

(Continued from page 479).

summer, little or any attention was paid to brooding equipment; a dry goods box or A-shaped coops served the purpose very nicely. The lamp brooder followed in its various stages of imperfection. This was one step in advance of the old hen but had certain undesirable traits, as smoking, blowing out in high gales and causing no end of trouble to the operator.

The coal burning stove and colony house have practically solved the brooding problems. The accompany-

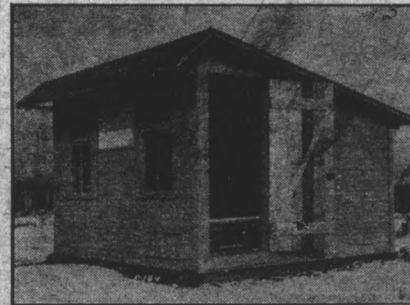


No. 2—Air Cushion Gate at Door.

ing illustration shows a portable colony house of the type recommended by the Michigan Agricultural College. This building is ten feet square, five feet high at rear and seven feet in front. It is put on skids which makes it easily moved from place to place about the farm. The sunshade is designed to act as a shade to cut down the rays of the hot summer sun and act as a storm shade to prevent north and west winds whirling in front of ventilator, cooling the house down to too great an extent.

Ventilation is secured by a cotton frame which slides up or down as the weather conditions require. The windows are also arranged to drop in at the top and a rear ventilator is used in excessively hot weather. The stove is set in the middle of the floor which is covered with sand for the first two weeks. Note the construction of air cushions constructed around the outer edge of the house to prevent the chicks crowding. These frames are hinged in order that they can be swung out of the way during the day and let down at night to prevent the chicks piling up into the corners and smothering.

The accompanying illustrations show the arrangement of these air cushions. In Cut No. 1 note the one frame is hinged up as used during the



No. 3—A Practical Brooder House.

day and the one (to the right) shows frames in position for evening. These advantages can readily be seen. The chicks in seeking a corner in which to huddle up are forced up on the wire frame. Free air circulation under them prevents smothering and trampling. The roosts also serve to educate the chicks to go to roost early, thus aiding in avoiding crowding. Cut No. 2 shows arrangement at door. Frame is hinged to permit entering readily. Note the arrangement of the door in the east end away from the cold north and west winds. The runway is also in the southeast corner, thus preventing

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

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

drafts on the chicks or on the regulating device of the stove.

After the chicks are six weeks of age and learning to roost, the stove can be removed, roosts provided and the colony house removed to a convenient place. An orchard makes an ideal range for growing stock. An alfalfa field or corn field is also excellent.

The colony house system is fast growing in popularity as a part of the farm equipment. A house of this type can be constructed for approximately \$60, exclusive of labor. It will accommodate up to 400 chicks. This system of raising chicks permits an even flock of earlier hatched pullets at a greatly reduced labor cost over the old system. It is a safe and simple method which any one can use. The cost of operation is low when compared with the old laborious, tedious method of using broody hens. This house can be modified slightly in winter and used as a breeding pen or for housing the cockerels or capons. It is the adaptability of its type that makes it so popular as a part of the farm equipment and a necessity on a commercial poultry farm.

IN CASE THE EGGS GET CHILLED.

If everything progresses smoothly, a sitting hen will usually return to her nest in the course of fifteen or twenty minutes, but occasionally she forgets, or by some mishap she is prevented in doing so, and remains away for an hour or more. In instances like this a good many believe that the hatch is lost. I am not able to say just how long the germ in an egg will live after it becomes cold, it will depend on how long the egg has been set, and the vitality of the germ, but life will exist much longer than many would suppose possible. Last year in April, a neighbor, by oversight, shut a sitting hen off her nest at night; she had been sitting about two weeks. The eggs were from pure-bred stock, had cost quite a little, and he naturally was anxious about them. When the accident was discovered in the morning the eggs were thoroughly cold and probably had been for ten hours or more, but they were at once placed under the hen, which in the course of time brought out eight apparently strong chicks. They did not hatch until the twenty-second day, due to the chilling, but they were an active lot of chicks and every one of them was raised.

A few years ago in turning the eggs in an incubator, I neglected to close the door of the egg chamber, and did not discover it until nearly night. This was in March and the weather quite cold, but I got better than a sixty per cent hatch of the fertile eggs. These chicks were not quite as strong as usual, but they did fairly well. For sitting hens it is best to have a separate room for this special purpose, and then sometimes a nest of eggs will become exposed by one or more of the setters going on with other hens. A sitting hen should be off the nest for fifteen minutes every day, when not severely cold, but if she is off for several hours I should proceed with the eggs just the same, although the result might be quite different from these two instances mentioned above.—V. M. Couch.

GREEN FOODS HELP VITALITY.

In southern Ohio on the poultry demonstration farms they have found that they have thirty per cent better hatches after the flocks of hens were allowed access to a small patch of green rye. Just why this happens they do not know, but invariably when hens are allowed to have access to green food of that sort, better hatches result. It is very likely that the vitamins in the grass may account for the increased vitality of the eggs.



A new way of feeding is surprising the world's largest poultry raisers

Remarkable results are being observed in feeding yeast to poultry

Greater egg fertility and hatchability—increased vitality and virility in laying stock—less mortality among chicks.

THESE are the surprising results obtained by some of the world's largest hatcheries—and by other raisers in many parts of the country—in feeding Fleischmann's Pure Dry Yeast to poultry.

One test showed an increase of 23% in fertility. Only 5% of eggs from yeast-fed hens were infertile, as against 28% of eggs from non-yeast-fed hens.

The chicks in this lot received Fleischmann's Pure Dry Yeast and were marketed in seven weeks, averaging 1 3/4 pounds each.

The loss in another of the recent tests was 93 in a hatch of non-yeast-fed chickens, and only 59 for the chicks fed on Fleischmann's Pure Dry Yeast—a saving of 34 chicks.

In one flock fed on Fleischmann's Pure

Dry Yeast, whose age at present ranges from 2 to 9 weeks, the loss has been only 345 out of 6000—less than 6%. "And for general development," writes the manager, "they surpass anything I have ever raised."

We are prepared to make immediate deliveries of Fleischmann's Pure Dry Yeast in 2 1/2 pound cans, direct to you. One can should demonstrate its power in securing more fertile eggs, with fewer chicks dying in the shell—stronger, more vigorous chicks—and faster-growing, huskier birds. With each can we will send a booklet containing complete instructions for the care and feeding of chicks and laying hens.

Pin a \$2 bill or money order to the coupon below and mail it today! It will bring you a big 2 1/2 pound can of Fleischmann's Pure Dry Yeast—enough to feed 10 birds for nearly 4 months. We pay the postage.



Forces rapid growth—1 lb. per month.
Two-pound broilers in eight weeks.

Costs 2c
a table-
spoonful



One tablespoonful daily to every 10 hens or 50 baby chicks. Each can contains 117 tablespoonfuls or 4 months' supply for 10 hens.

THE FLEISCHMANN COMPANY, Dept. D-54
327 South La Salle St., CHICAGO, ILL.
Enclosed find two dollars (\$2.00). Please send me a 2 1/2 pound can of Fleischmann's Pure Dry Yeast by prepaid parcel post.

Name
Street and number
City State



Save Your Baby Chicks

Increase the live weight—reduce the death rate. Feed them SECO Chick feed and buttermilk Chick Mash, and secure better results. These feeds mean stronger chicks and increased profits. Give them a chance. If your local dealer cannot supply you—write to us direct. Special prices to quantity buyers.

STOCKBRIDGE ELEVATOR CO.

Jackson, Mich.

Karsten's FARM

Quality Chicks

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.

BEECH GROVE CHICKS

Highest Quality Chicks money can buy and at no more than you pay for ordinary stock.

Heavy Laying S. C. White Leghorns Headed by males from 227 to 300 egg hens. Circular Free.

Live delivery and Satisfaction Guaranteed.

BEECH GROVE POULTRY FARM

R. R. 3

Holland Mich.

BABY CHICKS

From heaviest laying strains of Barron White Leghorns and Barred Rocks. Strong, sturdy, and healthy chicks that will live and grow. Money makers. 100 per cent live arrival guaranteed. Prices reasonable. Satisfied customers our specialty. Valuable catalog free.

Highland Farm Hatchery

Route No. 9.

Holland, Mich.

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win over all breeds at the egg laying contest. 30 eggs \$5.50; 50 \$10.00; 100 \$15.00. Some chicks H. H. JUMP, 175 Prospect Blvd., Jackson, Mich.

R. C. Br. Leghorn eggs \$1.50 per 15, \$8.00 per 100. W. Chinese goose eggs 40c each. Pekin duck \$1.50 for 3. Mrs. Claudia Botta, Hillsdale, Mich.



"As a mortgage lifter the hog has nothing on a De Laval Cream Separator"

"My work as field man for the Wisconsin State Dairymen's Association," says Herman Marx, in a recent letter, "brings me into contact with a great many farmers and a great many separators. Of all the farmers who own separators, I find about 80% of them own a De Laval."

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The present De Laval is the best De Laval Separator ever made. It skims cleaner, lasts longer and is easier to clean and operate than any other. It will pay for itself in a year's time, and is sold on such easy terms that you can use it while it is doing so. See your local De Laval Agent or write us for complete information.

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are the foundation
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The Unprofitable Cow

A Factor in the Marketing of Dairy Products

IF the present condition of prices for staple agricultural products holds for any considerable time, dairying is liable to be overdone. The man who has had little or no experience in dairying is apt to form the opinion that, at present prices, dairying is sure to be profitable.

This is a decidedly wrong conclusion. The best dairymen today, men who figure carefully on rations and management, will tell you that you must have good cows today, even with fair prices, to enable you to make a profit. The poor cow will give you red ink on the ledger. She always has and always will. Only selected cows can turn a dollar's worth of feed into milk or butter or cheese and make a profit.

The man who now changes from some other line of agriculture and goes into dairying is quite liable to

or the system, of the American dairyman and she will abide with us for years to come, despite all that can be said or done.

If the unprofitable cow only injured her owner, it would not be so bad; but her product placed on the market depresses the market and keeps prices down. So poor cows owned by one man not only gets him nowhere, but prevents other people and himself from making the profit they should from the milk of their good cows. It is like the farmer eating oleo and selling his butter—he deprives himself, his wife and children of life-giving vitamins and he depresses the market for all butter, his own included. If every farmer who now uses oleo would use butter freely it would withhold enough butter from the market to affect the price of all butter. So the farmer would get as much for the butter he sold other than he consumed, as he would for the whole amount produced, and he would be ahead what he pays out for oleo, besides having a much better food.

The key to the future prosperity of the dairy industry is the unprofitable cow. Take care of the dairy market from now on by disposing of her. No loss is occasioned when you sell her. In fact, everybody would be better off if he had to give her away. By relieving the market gradually of her product which in the aggregate amounts to much, the market can be kept "bullish" instead of "bearish," prices maintained or increased, and dairy prosperity continued.

If some sensible, logical way which could be universal is not put into practice at once, you will see the dairy markets go smash in the next few years from over-production. The cow owners must find the way themselves. The middleman and broker will not urge such a plan. The more milk, butter and cheese they get, the better for them, but not for the farmer.

This question ought to be discussed at every opportunity at all farmers' organizations, local farm bureaus, granges, farmers' clubs, gleaner arbors; and more than that, it should be carried to every individual farmer. Drive the truth home with so much vigor that the future dairy market will be protected by the control of milk production through the converting of unprofitable cows into cheap beef for the masses.—L. C.

COWS BRING PROFIT.

OVER in Newaygo county, near Holton, Mr. A. C. Nelson has found through the cow-testing association that his cows are bringing him big returns. His recent record shows that for every dollar spent in feed his cows are returning him \$2.87.

This record is all the more remarkable, because a year ago Mr. Nelson's herd was in a run-down condition, but



E. C. Fowler's Guernsey Herd Leader, Prince Hambro of Oak Crest.

by closely following the advice of the county cow-tester, H. D. Shisler, he has the highest testing bunch of cattle in the association.

As long as the cows are returning such a profit on the feed, Mr. Nelson believes in giving them all they can

Likely Young Sire from the Ayrshire Herd of Findlay Brothers.

rue the day he does it. He must have selected cows, and he must give them proper care and feed if he hopes to make his change profitable. Just buying a lot of cows as ordinarily offered for sale will put him in a hole so far as profit is concerned, unless he pays good prices and gets cows of proven ability to produce. About the only way to get a profitable herd is by raising his own cows and testing out the unprofitable. This is a slow process, requiring careful breeding and selecting; but it is the real way. Any other way will give him plenty of poor cows.

Can there be any excuse under the sun for keeping an unprofitable cow? She may help out a little in giving a man a job, and she may convert some of the rough feed on the farm, straw, cornstalks, etc., into manure that will give quick fertilizer results; but it would be much more profitable to allow time to change the condition of this roughage into an available form without an overhead expense than to keep an unprofitable cow to do the job. Better, by far, would it be to convert her into bologna sausage and get a profitable cow in her place.

The only sane reason that can be given for a man keeping an unprofitable cow is his ignorance of the fact that he has her. This isn't a good reason, for he should know. The cow-testing association will keep him posted. But if the testing association is not available, he can do his own testing. It is not a difficult job to weigh the feed once a month and carefully estimate its value, and weigh the milk and test it for butter-fat. Charge the cow with her feed and credit her with her milk at market prices. That is all the cow-tester does, except perhaps to give you some good advice.

Did you ever consider what would happen if all the unprofitable cows should be disposed of at once? Well, there would not be sufficient milk, butter and cheese to go round. There would be a famine in these foods. Prices would go sky high. People would have to eat oleo, or lard on their bread and have to go without milk and cheese. Don't worry. It won't happen. This unprofitable cow seems to be strongly entrenched in the affection,

consume. His herd average of production was 50.1 pounds of butter-fat, and the highest producing cows are consuming as much as fourteen pounds of grain, thirty-six pounds of silage and twenty pounds of potatoes, besides eating all the hay they want. It costs a lot to feed them this way, but when fourteen dollars worth of feed brings in forty-one dollars, such feeding shows good business judgment.

WHY FIGHT FILLED MILK?

WHY need we inaugurate the campaign against the manufacture and sale of the product known as filled milk? This question is particularly pertinent, since filled milk does not necessarily contain any injurious articles.

The reason why this product, which has been developed since the opening of the World War, is dangerous to our civilization is that it lacks the necessary vitamins for the normal growth and development of infants and children. Normal milk provides these vitamins. They may also be supplied through the use of certain green vegetables. These vegetables, however, cannot be used by infants. This leaves milk as the infant's only available source of these necessary elements.

Without these vitamins, the young children are almost certain to develop rickets, inflamed and swollen eyes, and other constitutional ailments.

The manufacturer and sale of the product is dangerous because it cannot be told from the pure milk except by expert chemists. Then, too, the product can be manufactured so cheaply that it would be but a short time until it had fully displaced pure milk to the great detriment and injury of our people. Butter-fat is now worth forty cents or more per pound, while coconut oil, which is substituted for butter-fat when manufacturing filled milk, costs from ten to twelve cents per pound.

HIGGINS' HOLSTEINS.

WILLIAM H. HIGGINS is a Holstein enthusiast. He has bought good animals, raised many more, made some enviable records, and recently sold them. When cows sell for from \$300 to nearly \$500 these days, it looks like a lot of money, yet many people, who claim to know values, consider that, with the records and breeding behind these cows, the prices paid were very conservative. The list of sales follow:

Cass River Peter Mary, sold to Albert Kern, of Reese, \$355.
XL Pride Colantha Elzevere, sold to J. F. Glad, of Vassar, \$350.
Tuscola Gerusia De Kol 3d, sold to Vernon Dove, of Gilford, \$466.
Queen Pontiac Wayne Johanna 2d, sold to Jake Leffler, of Reese, \$300.
Fredora De Kol Pontiac, sold to Wm. C. Leutz, of Standish, \$175.
Beauty De Kol Netherland, sold to Frank Bordeau, of Standish, \$238.
Princess Pontiac Netherland Wayne, sold to Murray McCollum, of Unionville, \$190.
Belle De Kol Netherland Gem, sold to Frank Bordeau, of Standish, \$100.
Engamere Bernice Pontiac Wayne, sold to Lee A. Enos, of Vassar, \$89.
Engamere Helen Pontiac Wayne, sold to C. J. Hobart & Sons, of Gagetown, \$100.
Engamere Jewel Netherland Wayne, sold to Murray McCollum, of Unionville, \$65.
Engamere Garnet Netherland Wayne, sold to Murray McCollum, of Unionville, \$75.
Engamere Opal Netherland Wayne, sold to Wm. C. Leutz, of Standish, \$61.
Engamere Ruby Pontiac Wayne, sold to Herman Kern, of Reese, \$62.
Engamere Count De Kol Wayne, sold to Wm. Blunt, of Royal Oak, \$110.
Engamere King Peter Wayne, sold to Oscar Ashe, of Vassar, \$135.
Engamere Napoleon De Kol Wayne, sold to Dick Murphy, of Fairgrove, \$66.
Bull to Frank Bordeau, of Standish, \$61.
Natalie, to Murray McCollum, \$80.
Charlotte, to Murray McCollum, \$76.



Find What CANADA has to offer YOU!

If your dream of success seems like a hopeless ambition, if you are discouraged trying to get ahead on high priced land, if your present location fails to give you opportunity, there is a new deal for you, a new chance in the fertile, virgin farms of Western Canada, where wheat produces 20 to 40 bushels to the acre, where the 1922 crop was biggest in history, where oats, barley and hay and fodder crops are the basis of a great dairy industry, and a man's work brings him success and prosperity.

Low Priced Land—the Last Great West

In Western Canada you still can buy virgin prairie land at \$15 to \$20 per acre, on long terms if desired, near to town, railroads, etc.—land such as has for many years produced the world's prize winning wheat, oats, barley, flax, rye, alfalfa. Canada had no "war time" land boom; prices are not inflated—you get in on the ground floor.

Taxes Favor the Farmer as Values Increase

The tax laws of Western Canada encourage the producing farmer. The tax on land is reduced when it is brought under cultivation—while on your buildings, machinery, improvements, personal property, automobile, there is no tax at all. A single crop is often worth more, acre for acre, than the cost of the land.

Rent Now—Buy Later Pay Out of Profits

Canada welcomes the industrious settler. What you have now isn't so important. If your capital is small, or you cannot sell your present holdings to advantage, rent a fertile Canadian farm and "try it out" for a season or two. Make a good living, increase your capital, and buy later. Farms may be rented from successful settlers on easy terms; in some cases with option of purchase.

Buy on Exceptional Terms—32 Years to Pay

For the benefit of those wishing to buy land a national non-profit sharing organization—the Canada Colonization Association—has been established with head office at Winnipeg, and United States office at St. Paul. This Association offers selected land convenient to railways—much of it at \$15 to \$20 per acre—on very small cash payment; no further payment until third year; balance extended over thirty years, but purchaser may pay up and obtain title at any time if desired. Interest six percent per annum on deferred payments.

We Help Find Your Opportunity

The Canadian Government maintains information bureaus in leading American centers, where you can get full information, without cost, about all parts of Canada. The men in charge are Government officials, interested only in the service of the prospective settler.

Get the Facts—No Cost

MAIL THE COUPON. Let us know something of your position, and receive free book with maps, and free service of the Canadian Government Agent in your territory; also information how special railway rates can be arranged for a trip of inspection.

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Due to its separate control of cutter head and blower speeds, the Gehl Cutter never wastes power on any silo. Furnished in both Cylinder and Fly wheel types. Reduce your silo filling costs with a Gehl. Ask your dealer or write for Catalog.

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For Sale 120 acre farm all under cultivation, 11 miles from Bay City on gravel road. 2 1/2 miles to cement pavement into city. Good soil in high state fertility, good drainage. Fenced and cross fenced. Two deep wells. Bearing orchard. House with full basement, and kitchen. Cow barn 32x70, silo 16x30, cement floor and stanchions, hip roof barn 40x30, horse barn 36x44. Tool shed and other buildings. 36 registered Jerseys, 4 horses. Will sell all or farm alone. Owner LAWRENCE RUBSTORFER, Keweenaw, Mich.

160 Acre Michigan Farm 4 Horses, 8 Cattle and

Hogs, poultry, brood sow, implements, tools included to settle immediately; good income assured; potatoes, pickles, beans, hay, grain, fruit, berries do well; schools, stores, churches; excellent markets; level, loamy tillage, lake-watered pasture; estimated 1,000 cords wood; 35 apples, pears, cherries, plums; good 5-room house overlooking beautiful lake, large lawn, delightful shade; substantial barn, poultry house. To settle, affairs low price \$6,000 takes all, part cash. Details page 27. Bus. Catalogue Bargains—many states. Copy free. Address me personally. E. A. STROUT, Pres., STROUT FARM AGENCY, 427KH, Marquette Bldg., Chicago, Ill.

\$1500 Secures Equipped 60 Acres, 3 Horses, 9 Cattle, 60 Hens

FARMING IMPLEMENTS, small tools, hay and grain, 25 bu. seed potatoes, etc., 1/2 mile from town with R. R. depot, store, church, school, milk station, 60 acres level fertile loam tillage, well watered wire fenced pasture, estimated 1,000 cords wood; 2 story 7 room house, painted, 2 porches, fine well water, near neighbors, mail delivered, 40 ft. barn, 8 tie-ups, 3 stalls, other buildings. Old age forces this money making bargain on market at sacrifice price of \$5,500 for all, \$1,500 down, balance easy. Immediate possession. Write or see Harold Meritt, 1241 W. Main St., Midland, Mich., or MICHIGAN FARM AGENCY, 628 Ford Bldg., Detroit.

For Sale At bargain prices, 80 acres, 55 acres in good cultivation, wood lot fenced for pasture, all level on good road, R. F. D., good 7 room house, barn, hog and hen house, corn crib and shop over outside cellar, well, some woven fence, 18 acres seed, a good quality gravel loam soil. Price \$2,400. 80 acres, 25 acres in cult. about 60 bearing fruit trees, small house, poor barn, some out buildings, barb wire fencing, sandy loam, 15 acres swamp with cedar fence posts and other timber, about 1 1/2 miles to school, 2 miles to Rapid City. A bargain, price \$800.

Write J. McFarren Rapid City, Mich.

160 Acres. 50 cleared, 105 acres pasture, 5 acres school; soil is sandy loam and red clay, good 13 room brick house with hot air furnace, telephone, stone foundation under house, barn 40 x 60 x 12, with full foundation under whole. Granary, garage, implement shed, sheep barn and other small buildings, two fresh water wells on place. All buildings are in fire insurance. This farm will please the most particular one, must sell, being that the owner is dead. Price, \$8,000; \$3,000 down. Write Mrs. Victoria Houston, Lupton, Mich.

FOR SALE a going farm in S.W. Michigan 92 acres, 12 hardwood timber, bal. under cultivation. Clay loam soil, no sand, good water. Nine-room house, barn, garage, sheds, in all 8 buildings in good condition. Near lake and river resorts. Tools and farm implements included. No incumbrance. Price \$10,500. terms. An exceptional bargain, wood alone will bring that much. Possession at once. Emil Schmidt, 20 No. La Salle St., Chicago.

FOR SALE. 40 acres all improved but two seven room house with cellar, hip roof barn 30x45, wagon house and garage, fruit, good soil, level, well, fenced, water, school, church close, 3 miles to town, 7 miles to railroad station, \$100 per acre. \$1500 down, balance easy terms, possession at once. GLEN ALLEN, R. 8-37, Ann Arbor, Mich.

LET ME TELL YOU NOW

To obtain 40 to 600 acres of valuable cut-over farm land in Gladwin County, Mich., at \$1.00 an acre down payment, small payments on balance, 5% interest. Improved farms at a low price and easy terms. U. G. Reynolds, Gladwin, 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 Bldg., St. Paul, Minn.

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 135 acre farm, splendid Vineyard of 38 acres, fully equipped good buildings, good location. A Money Maker. Price and Terms reasonable. C. Zimmerman, Lawton, Mich.

FOR SALE Southeastern Colorado—irrigated and non-irrigated farms and 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.

FOR SALE—147 acres, good land, new buildings, 3 miles to town on roadward road. Choice location, consider trade for smaller property, going to sell to the best offer soon. Geo. Rundle, Olivet, Michigan.

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 monthly buys 40 acres productive land near town. Some timber. Price \$225. Other bargains. Box 425-Z, Carthage, Mo.

80 Acres Improved \$65 per acre \$1000 cash. 160 acres improved \$85.00 per acre \$1000 cash. THE ALLEN COUNTY INVESTMENT CO., Iola, Kansas.

WILL BUY virgin tracts of Hardwood Timber 40 to 300 acres. GEO. J. McCLURE 2821 Clark Ave. Detroit, Mich.

I Want Farms in Mich. for cash buyers. Describe and state price. R.A. McNowa, 324 Wilkinson Bldg., Omaha, Neb.

FARMER: 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, five description, price. R. E. LEADERBRAND, 1500 Cimarron, Kans.

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

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

If You Want To Sell Your Farm

Write, JEROME PROBST, Ann Arbor, Mich.

Want to hear from party having farm for sale. Give particulars and lowest price.

JOHN J. BLACK, Copper St., Chippewa Falls, Wis.

Farm for sale on hard road one mile from good market. \$35.00 per acre. J. E. TOBIAS, 306 Maple St., Battle Creek, Michigan.

Listen 40 A. imp. farm \$1200. Good terms. Other farms. McGrath, Mountain View, Mo.

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

Farm Wanted, Send description, lowest price. ADAMS, 1931 Forest, St. Louis, Mo.

50 GOOD FARMS write for our free list. DeCoudres, Bloomington, Mich.

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For Sale Excellent herd of Aberdeen Angus
Cattle, seven cows with calves at foot.
Three cows with calf. Four heifers one year old. One
registered bull three years old. Just the kind for build-
ing up a high-grade herd at a reasonable first cost.
Nine months time on bankable notes. J. D. SWART,
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Registered Aberdeen-Angus 10 heifers, 6 bulls
from eight to fourteen months.
Best of breeding. The growthy kind that make good.
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Some fine young bulls for sale to close out the herd.
Breeding of the best and at prices that are lower
than we have ever offered such stock. Sons of the
best bred bulls of the breed.
ST. AUSTELL FARMS, Jackson, Mich.

Registered Guernseys

A fine Bull ready for light service, special
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For Sale very cheap. One registered Guern-
sey bull, Lochabau-Prince No. 75890
Born April 13, 1921 from good milk strains. Address
V. P. CASH, Alma, Mich.

GUERNSEYS - REGISTERED BULL
Calves. Containing blood
of world champions. A. R. co ws. Federal inspected.
HICKS GUERNSEY FARM, Saginaw, W.S. Mich.

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

For sale Registered Guernsey cows, May Rose Breed-
ing also bull calves \$50 each. Registered A. R.
dams. JOHN EBLIS, R. 2, Holland, Mich.

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THREE 30 LB.

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pleted test making 30.17 lbs. butter, 560 lbs. milk
in 7 days. As Jr. 4 yr. old. As Jr. 3 yr. old she
has A. R. O. record 28.73 lbs. butter which was
2nd best Jr. 3 yr. old record in state for 1922.
No. 2--Born Dec. 10th, 1922. Sire's dam and 3
nearest dams of his sire average over 30 lbs. butter
in 7 days. May Echo Sylvia Breeding.
Dam just made record of 31.63 lbs. butter, 638.4
lbs. milk in 7 days. Has made 3 records above 30
lbs.
No. 3--Born Feb. 4, 1923. Dam same as dam
of No. 1. Sire same as sire of No. 2.
I. A. KIDNEY, Brant, Michigan

The Traverse Herd

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

TRAVERSE CITY STATE HOSPITAL
Traverse City, Mich.

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

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.

Ready For Service

No. 1. Grandson King of the Pontiacs. One yr. old
7-8 white. Second Dam 29.9 lbs.
No. 2. Grandson of 37th. One of the Strongest Ornis-
by bred Bulls. Dam 28 lb. as Junior 4 year old.
Send For Pedigree-Federal Tested

James B. Jones Farms, Romeo, Mich.

WHITNEY FARMS HOLSTEINS.

Offering registered cows, heifers, bulls and bull
calves at prices the average farmer can pay. Colan-
tha 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. 4 yr. old by 30 lb. bull 21 lb. dam,
her 2 1/2 yr. daughter, 4 yr. old granddaughter, of Jo-
hanna Korn, D. K. and 3 months old heifer. Terms
if wanted. J. H. SESSIONS, St. Johns, or M. L. Mc-
LAULIN, Redford, Mich.

FOR SALE Registered Holstein Friesians
One A. R. O. Heifer, one fresh.
\$125. Bulls with good milk records ready for service
\$75. Bull calves \$30, cows with milk records, one to a
car load, bred to a 35 lb. bull.
FRANK STAFFEN, Howard City, Mich.

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

For Sale Registered Holstein bull, 15 months old
sired by a 45 lb. bull. Dam now making
a good yearly record. A good animal for \$125.
W. C. HOWE Est., Howell, Mich.

HEREFORDS

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

ALLEN BROS.

616 So. West St., Kalamazoo, Mich.

HEREFORDS

Young Cows with calves by side consist-
ing of blood from American and foreign
herds at prices that enable them under
Earlrippe 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 189796, one of two sons of perfec-
tion. Fairfax out of a daughter of the
Famous Disturber, T. F. B. Sotham &
Sons, (Herefords since 1839), St. Clair, Mich.

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

BROOKWATER JERSEYS
BULL CALVES FOR SALE

From Register of Merit dams and sired by Majesty's
Intense 127191 and Brookwater Veda's King 18551.
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
CRYSTAL SPRING STOCK FARM,
Silver Creek, Allegan County, Michigan.

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

Jersey Bull calves of the very choicest breed-
ing, of good type & from high pro-
ducing dams. Federal Accredited herd. "Moderately
priced" C. S. Bassett, Kalamazoo, Mich.

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

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

FOR SALE Registered Jerseys all ages.
Best of breeding. Low prices.
FRED DONALD, Oxford, Mich.

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

Breeder's Page

By P. P. Pope

DUROCS AND DURHAMS.

THERE is a supervisor over in Tus-
cola county named Charles P.
Hover, whom this little story is about.
He has a good farm and is building
over his barns to make them more
convenient for his purpose, which is
the raising of Duroc hogs and Polled
Shorthorn cattle.

Of course, he does a considerable
stroke of general farming and he also
runs a considerable number of stock-
er cattle which graze the pasture lands
in the summer and make beef of the
rough feed in the winter.

His pure-bred herd of cattle is still
rather small but a few foundation
females and a good herd header will
soon adjust the members to suit the
farm. The grades he plans to elimi-
nate as rapidly as pure-breds can be
raised to take their places. It is not
fancy pedigrees and long prices so
much as good productive cattle with
quality, that appeal to Mr. Hover, and
in this he is surely on the right track.

The herd of Durocs on the farm are
a useful lot. Some are prize winners.
One worthy old matron was entertain-
ing a whole armful of new little red
babies at the time of my visit. It is
the aim of the farm to build up one
of the best herds of Durocs in that
section of the state and the plans are
well under way. Mr. Hover says it
takes hogs of the right type and qual-



This Young International Champion is
One of Many Good Horses Bred at
the M. A. C.

ity to make show hogs and breeding
hogs out of the same individuals, and
it is this type he aims to produce.

"Lone Oak Stock Farm" is the name
of the place, and visitors thereto will
find a practical business farm and a
practical business farmer whom it is
a pleasure to know and deal with.

SHADY LAWN SALE.

AT their beautiful farm home near
St. Louis, Sonly Brothers held
about the last pure-bred auction of the
season March 22. The boys have a
nice little herd of Shorthorns built on
a Scotch foundation and they raise
each year a goodly number of big bul-
ky Poland Chinas.

It is their plan to make the annual
or semi-annual public sale their meth-
od of disposing of the season's produc-
tion. So far the plan is working out
with a fair degree of satisfaction. They
held a very creditable sale last fall,
another the other day, and already
have a sale date reserved for next fall.

Most of this recent offering consist-
ed of bred gilts with a few unregist-
ered sows, a few boars and fall pigs,
and fine young bulls. The unregist-
ered sows were pure-bred and good in-
dividuals but sold far below the regis-
tered animals of similar size and qual-
ity. The average price received for the
registered bred gilts was a little
over \$38 per head. The bulls sold
fairly well but would still have been
conservative investments at consid-
erably higher prices.

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.

C. 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-morrow at \$60.00
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

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

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

FOR SALE Shorthorn cattle tuberculin
tested. Bred Berkshire sows.
SIMON G. MATCHELLE, R. 5, Middleville, Mich.

DOUBLE Standard Polled Shorthorns, milk strain.
Bulls and Heifers all ages at farmers' prices.
Paul Quack, Sault Ste. Marie, Mich.

Central Mich. Shorthorn Breeder's Assn.
offer 18 young bulls and 21
females of dual purpose type. M. E. Miller, Sec'y,
Greenville, Mich.

RED POLLED Bulls for sale. Cows with
calves and heifers.
G. A. CALHOON, R. 1, Bronson, Mich.

HOGS

Woodlawn Farm Duroc Hogs meet
present day require-
ments, 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. C. K. Col.
2nd and Orion Giant Col. Write for prices.
W. C. TAYLOR, Milan, Mich.

Duroc Jerseys. Bred gilts to farrow in March and
April. Prices reasonable. We breed those that
have size, type and quality. A few select fall boars
ready for service. F. J. DRODT, Monroe, Mich.

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

\$10.00 for a Duroc pig farrowed in March,
shipped in May. Express paid. Regis-
tered free. Write for Pedigree. D. W. SUTHERLAND,
Grand Lodge, Mich.

Duroc Jerseys 12 bred gilts, also 50 regis-
tered black top ewes.
CAREY U. EDMOND, Hastings, Mich.

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

DUROCS, ready for service and individuality,
breeding, large litters, satisfaction
or money back, write, B. E. KEIS, Hillsdale, Mich.

FOR SALE Durocs of the Low down heavy
boned type. CHAS. BEAY
OREMOS, (Ingham Co.) 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 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
choice fall pigs, also
bred sows and gilts. Prices reasonable. Weber Bros.
10 Mile and Ridge Rds, Royal Oak, Mich.

Chester Whites. Gilts bred for April and May far-
row, sired by State Fair prize farrowing. Fall
gilts. LUCIAN HILL, Tekonsha, Mich

Chester Whites Herd headed by The Mon-
ster and Iowan's Jumbo.
Two great Big Type boars of the breed.
FRED L. BODIMER, Reese, 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.

Saginaw Valley Herd of O. I. C's & Chester White Swine,
40 Bred Gilts, sired by
C. O. Mich. Boy and Selection 1st, bred to Jumbo's
Giant 1st, son of Grand Champion Boar at Mich.
State Fair. Photos on request. John Gibson,
Fosters, Mich R. 2.

O. I. C's. 20 last spring gilts bred to farrow in
gilts. Mar. and April, big growthy stock.
recorded free. 1/2 mile west of Depot, City's phone.
OTTO B. SCHULZE, Nashville, Mich.

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

O. I. C. Big type. May gilts due Apr. 20th to May 5th
gilts. Weighing 300 lbs. Fall pigs either sex. Sired
by Michigan Jumbo 2nd Grand Champion Mich. State
Fair '22. NEWMAN'S STOCK FARM, Mariette, Mich.

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

O. I. C's Am offering a few fall boars and
gilts bred for May farrow.
C. J. THOMPSON, Rockford, 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. BUELER, Portland, Mich.

Leonard's Big Type P. C. gilts sired by Leonard's
Liberator and Orange Chasman and fall pigs at
bargain prices. E. R. LEONARD, St. Louis, Mich

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, \$12.00) 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
5576 Roosevelt Road
Chicago, U. S. A.

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



POLL EVIL

FISTULA OR SWEENEY

THE reliable remedy is Combauld's Caustic Balm. Used for over forty years. Supercedes firing and cauterizing.

Symptoms and treatment of most horse ailments fully explained in direction book with every bottle. \$1.50 at druggists or direct upon receipt of price. Good for humans too. The Lawrence-Williams Company, Cleveland, Ohio.

WATCH YOUR HORSE'S NECK & SHOULDERS

COMBAULT'S Caustic BALSAM

HOGS

Pure Bred Poland China CONSIGNMENT SALE

37 Head 37 Head
Sales Pavilion Howell Fair Grounds
SATURDAY, APRIL 7, 1:30 P. M.

A choice lot of bred gilts due to farrow before May. first, some open fall gilts and ten fall boars ready for service.

all pigs sired by BIG PAWNEE JUMBO and all gilts bred to LEONARDS LIBERATOR

W. J. HOSLEY, Sales Mgr.
HOWELL, 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.

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

Pig Type P. C. some very choice boars double im Bumbo, out 1100 lb. size and smooth some from Iowa's greatest herds. E. J. Mathewson, Burr Oak, 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 rearing bear I ever owned has also combined with quality. Come and see the real kind. W. E. LIVINGSTON, Parma, Mich.

L. T. P. C. Gilts and boars all sold. Thanks to my customers for the patronage of the past. M. M. PATRICK, Gd. Lodge, Mich.

L. T. Poland Chinas spring boars and bred sows at reasonable prices, also fall pigs either sex of popular blood lines. Aberdeen-Angus bulls, Redders and Cows that are show winners. Write or come. E. A. CLARK, R. 3, St. Louis Mich.

Maplehill Poland Chinas. Attractive spring gilts bred to a grandson of Liberator. Now ready for sale. George R. Wheeler Mt. Pleasant, Michigan.

Large Type P. C.

The Real Kind. A few of these 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

Fall pigs of either sex. Sired by FOX CHASMAN 43295 Mich. Sr. Champ. 1922. T's Chasman 39721 Mich. Sr. Champ. 1920 and T's Big Orange 43463. Write or come and see them. A. A. FELDAME, Manchester, Mich.

THE FARMER'S MOST HELPFUL BOOK.

A RECENT vote taken to determine the most popular book among farmer readers, gave high honors to "Feeds and Feeding," by Henry and Morrison. This volume received three times as many farmer ballots as any other agricultural book.

It is read everywhere and everyone is interested in its contents. The progressive farmer, the learned professor and the busy business man goes to its chapters for information about feeds.

The book has kept pace with the times. It has been generally recognized as the most complete and accurate work on stock feeding in the English language. Up to this year eighteen editions had been published. As it is important for the feeder to have the latest information, the chapters of the book have constantly been revised to include the newest findings of practical men and feeding specialists. The epoch-making discoveries of the past few years are here presented in clear and concise language.

To celebrate the twenty-fifth anniversary of the first volume, and illustrated edition has just come from the press. This is selling at \$4.50 per volume. To make it convenient for our readers to possess themselves of this valuable book orders will be promptly filled through the Michigan Farmer offices. The un-illustrated edition is listed at \$3.85 per volume.

Veterinary.

CONDUCTED BY DR. W. C. FAIR.

Advice through this column is given free to our subscribers. Letters should state fully the history and symptoms of each case and give name and address of the writer. Initials only are published. When a reply by mail is requested the service becomes private practice and \$1 must be enclosed.

Chronic Lameness.—I have a 1,300-pound mare which our veterinary has treated for spavin, but her lameness remains the same. Rest makes her about well, but she grows lamer the farther she is driven. I have been advised to have her nerved. H. F. S., Danville, Pa.—If she suffered from bone spavin lameness, exercise should reduce the lameness. Does she not strike shin with opposite foot? Before treating lameness, it should be located. From the few symptoms you give I am unable to locate the lameness, but I have a doubt of it being spavin.

Congested Udder.—One month before and three or four weeks after my cow freshens her udder congests, causing me a whole lot of trouble.—D. H. B., Mulliken, Mich.—If your cow lived on a restricted diet, her bowels kept open, if not exposed to cold drafts, or allowed to lie on cold frosty ground and if milked two or three times a day, before and after calving she might pretty much escape the udder trouble you mention. Hot water fomentations relieve congestion; give and apply fluid extract of phytolacca and it will relieve her congested bag.

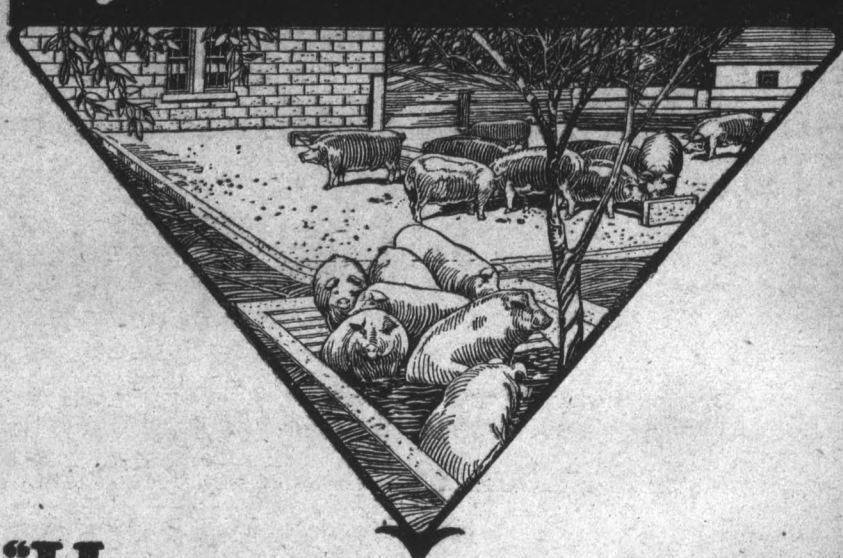
Enlarged Gland.—My three-weeks' old calf has a hard bunch close up to jaw, but it is not painful. J. D. M., Vanderbilt, Mich.—Apply one part of iodine and fifteen parts lard three or four times a week.

Garget.—One quarter of my cow's udder is very hard; instead of milk coming, stringy stuff runs from it. J. E. H., Akron, Mich.—Give her one-half ounce doses of fluid extract of phytolacca twice a day; apply camphorated oil to caked quarter twice daily. Gentle hand-rubbing and clean milking will have a good effect. Her milk is unfit for human use.

Infected Udder.—Following an injury to teat, the quarter became infected, but the wound on teat healed. Since drying quarter, balance of udder seems to become diseased. W. B. P., Saginaw, W. S., Mich.—Give her quarter ounce of hyposulphite of soda at a dose three times a day; apply camphorated oil to udder two or three times daily.

A long fall and mild winter have been kind to the man who failed to pick seed corn last fall. Pick now, throwing out all soft ears and all with discolored butts.

Says the local ALPHA Dealer:



"Hogs ought to have

a cement wallow and a decent feeding floor. A cement floor puts the food where it belongs --in the hog, rather than in the mud."

"Permanent wallows and floors that can be built right out of the sand and stone on your place mixed thoroughly with ALPHA CEMENT, are illustrated in the ALPHA Service Sheets and Handbook, which I am glad to give to every property-owner or cement-user."

Alpha Portland Cement Co.

140 South Dearborn St., CHICAGO
EASTON, PA.

Battle Creek, Mich. Ironton, Ohio St. Louis,
New York Boston Philadelphia
Pittsburgh Baltimore

Plants at: Bellevue, Mich. La Salle, Ill.
Ironton, Ohio St. Louis, Mo. Alpha, N. J.
Martins Creek, Pa. Cementon, N. Y.
Jamesville, N. Y. Mannheim, W. Va.



use Alpha Cement

Panhandle Herefords

800

GOOD STANDARD GRADE

Dehorned White Face Steers

Yearlings, Per Head . . \$38.00

Two Year Olds, Per Head \$52.00

F. O. B. LOADING STATION, TEXAS

We offer these Cattle for April Delivery

WIRE OR WRITE

R. BINDER CO.

Battle Creek, Mich.

Francisco Farm Poland Chinas

Two choice gilts bred for early April farrow. One outstanding fall boar. \$25.00. Five sows to date have farrowed 82 pigs. F. P. POPE, Mt. Pleasant, 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 ing nor price. H. O. SWARTZ, Schoolcraft, Mich.

Walnut Alley Big Type P. C. gilts now ready to ship they are bred to the best boar I have seen this fall. A. D. GREGORY, R. 3, Ionia, Mich.

P. C. Choice gilts sired by a son World Champion Big man, also fall pigs, C. E. Garnant, Easton Rapids, Mich.

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

Hampshires spring boars and bred gilts from 25 sows to select from. Place your order now or you may be too late. 10th year. JOHN W. SNYDER, R. 4, St. Johns, Mich.

HORSES

For Sale Imported Percheron Stallion Jar- iste No. 89248, (83952.) Sound, kind and gentle. ROY BRAZEE, Marshall, Mich.

LATEST MARKET REPORTS

GRAIN QUOTATIONS

Tuesday, April 3.

Wheat.
 Detroit.—No. 2 red \$1.33½; No. 2 mixed \$1.33½; No. 2 white \$1.33½.
 Chicago.—No. 2 hard \$1.21; No. 3 hard \$1.20½; May \$1.20½.
 Toledo.—Cash \$1.34½@1.35½.

Corn.
 Detroit.—Cash No. 2, 80½c; No. 3 yellow 78½c.
 Chicago.—No. 2 yellow at 75@75½c; No. 2, 74¾c.

Oats.
 Detroit.—Cash No. 2 white at 50c; No. 3, 48½c.
 Chicago.—No. 2 white 45¼@46½c; No. 3 white, 44@44¾c.

Beans.
 Detroit.—Immediate and prompt shipment \$7.25.
 Chicago.—Choice hand-picked Michigan beans \$8; red kidneys \$8.60.

Rye.
 Detroit.—Cash 81c.
 Chicago.—No. 2; 83c.

Seeds.
 Detroit.—Prime red clover cash at \$11.90; alsike \$10.25; timothy \$3.45.
 Toledo.—Prime red clover cash at \$12; alsike \$10.50; timothy cash \$3.40.

Hay.
 Detroit.—No. 1 timothy \$16@16.50; standard \$15.50@16; light mixed at \$15.50@16; No. 2 timothy at \$14@15; No. 1 clover \$13@14; rye straw \$11.50@12; wheat and oat straw \$11@11.50 per ton in carlots.

Feeds.
 Bran \$38; standard middlings at \$37@37.50; fine do \$38.50@39; cracked corn \$36; coarse cornmeal \$34; chop \$30 per ton in 100-pound sacks.

Fruit.
 Apples.—Jonathans \$6.50@7 a bbl; Kings \$5.50@5.75; Northern Spies \$6@7; Greenings \$5.25@5.50; Baldwins \$5.50@5.75.

WHEAT

Wheat prices seem to be back in a rut once more so far as cash demand is concerned, but prices are sustained by the uncertain outlook for the new crop. The outlook for the new winter wheat crop will be influenced largely by weather conditions in the next few weeks. Its condition on December 1 was comparatively low at 79.5. Flour trade was unusually dull last week with mills operating at little more than fifty per cent of capacity.

RYE

Export sales of rye expanded last week with Norway and Germany the principal buyers. In view of recent reports of purchases of rye from Russia by Germany, the sale of a cargo of American rye to Riga with inquiries for more, is of interest.

CORN

Both corn and oats seem to be gaining in strength. With the spring planting season at hand, the movement to terminals is apt to fall off without a proportionate decrease in the demand. Prices for corn at interior points are running higher than at Chicago right along. New Argentine corn is said to be offered for export at a slight discount below our prices but world shipments have fallen off sharply in the last six weeks and stocks abroad as well as on ocean passage are small so that importing countries are obliged to buy in this country in order to obtain quick delivery.

OATS

Oats seeding in many important states has been delayed by cold weather so that the crop is getting an unfavorable start. It is possible that the late season will result in an increased acreage of oats in the spring wheat states. Receipts of oats are fairly liberal for this season of the year, but the visible supply has decreased without interruption each week for the last two months as a result of a good demand for cash oats.

SEEDS

Cloverseed markets have weakened once more as demand has not broad-

ened materially and dealers are anxious to reduce their stocks. The cold weather still delays the seeding season so that demand will be broader than usual in April but there is little likelihood of any important advance in prices.

FEEDS

While wheat feed prices developed strength in the last few days in March, conditions were unusual and the market is expected to sag again along with other feedstuffs which remain weak. Bran for June shipment is quoted \$7 lower than the prevailing prices. Linseed meal and cottonseed meal declined \$1 per ton and gluten feed \$2 last week. Stocks of feedstuffs in most sections are reported as being ample.

HAY

The hay markets are firm with unusually cold weather and light receipts the chief factors. Demand for immediate consumption is active. Stocks of hay on farms on March 1 were estimated at 32.7 per cent of the 1922 crop. No report upon stocks as of this date in previous years is available.

POULTRY AND EGGS

The movement of eggs into storage broadened last week. Receipts have increased rather steadily and prices were low enough to attract storage buyers. Since the storing season is starting late, values are unlikely to go lower, at least until the approach of hot weather when the eggs arriving are less suitable for packing. Many Texas and Oklahoma eggs are arriv-

ing on northern markets and are selling at slight discounts as storage buyers hesitate to use them. That consumption of eggs has been considerably heavier than last year is shown by the fact that receipts at the four leading markets were larger than in March, 1922, but the increase in storage holdings was much smaller than at that time.

Chicago.—Eggs, miscellaneous 23@23½c; dirties 21@22c; checks 20@21c; fresh firsts 24½@25c; ordinary firsts 22@22½c. Live poultry, hens 28c; roosters 15c; ducks 28c; turkeys 25c.

Detroit.—Eggs fresh 25@25½c per dozen. Live poultry, heavy springers 28@29c a lb; light springers 24c; heavy hens 28c; light hens 25c; roosters 17c; geese 20c; ducks 25@26c.

BUTTER

The butter market was extremely unsettled and sensitive last week owing to the approach of the spring increase in production and the declining prices which it will induce. Receipts have been irregular owing to storms which also caused uncertainty as to the volume of the make. Some butter from California and other western states also arrived at Chicago and the eastern markets and, along with a part of the last cargo of New Zealand butter which has not yet been disposed of, contributed to the nervous tone. The extremely narrow range between various scores continues due to an unusually high percentage of the better grades in the receipts. The Chicago market has been relative high compared with eastern points because of the influence of foreign butter.

Chicago.—Extras 49c; standards at 48½c; New York 50c; Detroit at 49@49½c in tubs.

POTATOES

The acreage of new potatoes in eleven southern states and nine intermediate states shows a reduction of 23 per cent from that of last year. In addition, the recent cold weather has caused considerable damage to early potatoes, all of which will widen the market for the remainder of the old crop. Potato prices have retained their recent advance in city markets and have worked higher at northern and western shipping points. The advance is all the more surprising in view of the fact that shipments from producing sections are still running considerably above normal for this season of the year, suggesting that storage stocks in the leading cities were allowed to become abnormally small. Northern round whites are being quoted at \$1.35@1.40 per 100 lbs. at Chicago, and \$1.45@1.75 in other consuming markets. New Florida potatoes are bringing \$14 a barrel in the northern markets.

APPLES

Apple prices are steady to firm with shipments around normal for this season of the year. New York Baldwins are quoted at \$5.25@6 per barrel.

BEANS

The bean market declined last week to \$7.50 per 100 pounds for the choice hand-picked whites f. o. b. Michigan shipping points. Red kidney beans are quoted at \$8. Demand has been extremely light during the last month. The remaining stocks in the state are strongly held and as beans now in distributors' hands are cleaned up they will be compelled to re-enter the market so that it should develop a stronger tone as it is a long time till the new crop.

WOOL

Demand for wool broadened sharply in the last ten days and prices have regained the loss incurred in the early part of March. Buyers are trying to bag the new clip as cheaply as possible but growers are selling with reluctance unless good prices are paid. Ohio delaine wools were sold at 57@58c and half-blood wools at 55@57c. Foreign markets also show a strong tone with sales 5@7½ per cent higher than the preceding values.

GRAND RAPIDS

Growers of hothouse leaf lettuce in this territory continue to be victims of unusual circumstances for this season of the year. Sales of California head lettuce on consignment have more or less demoralized the market on leaf, causing prices to sag nine and ten cents per pound early this week. The prices on this product barely held steady this week at 10@11c. Other greenhouse products were steady as competition from outside sources was moderate. A fair inquiry for potatoes is holding bids to producers at 60@70c per bushel, mostly 60c. Retailers are buying conservatively, however, almost on a day to day basis as they anticipate a break as soon as shipments pick up. The egg market was rather unsettled early this week and prices were on such high levels, as a result of the run-up for Easter supplies, that the trade made no secret of the fact that a break is anticipated before the end of the week. Bidding was around 24c per dozen early this week, with prospects of falling to 23c by Wednesday. Packers may not enter the market until next week as they are afraid of chilled eggs. Spring lambs are in the market with the butchers bidding around 35c per pound, dressed. Hogs are firm at eight cents per pound, live.

DETROIT CITY MARKET

Potatoes are only in moderate supply and are therefore bringing higher prices. Apples are also selling well and so are eggs. Because of the Jewish holidays poultry has been in very good demand. Apples are quoted at 75c@85c per bu; beets 50c@1.25; cabbage 75c@2; carrots at 50c@1; eggs 30@35c; horseradish \$2@4.50; dry onions \$1@1.75; potatoes 85@90c; live poultry 28@35c; turnips 60c@2 per bu; veal 16@19c; hogs 14c.

Live Stock Market Service

Monday, April 2.

DETROIT

Cattle.

Receipts 410. Market is strong on everything but heavy prime steers, which are dull.
 Best steers \$ 7.75 @ 8.25
 Heavyweight butchers .. 7.50 @ 8.25
 Mixed steers and heifers 6.75 @ 7.25
 Handy light butchers.... 5.75 @ 6.50
 Light butchers 4.75 @ 5.00
 Best cows 5.25 @ 6.00
 Butcher cows 4.50 @ 5.00
 Common cows 3.25 @ 3.50
 Canners 2.50 @ 3.00
 Choice bulls 5.50 @ 5.75
 Bologna bulls 5.00 @ 5.50
 Stock bulls 4.00 @ 4.50
 Feeders 6.00 @ 6.75
 Stockers 4.75 @ 5.75
 Milkers and springers.... 40.00 @ 80.00

Veal Calves.

Receipts 607. Market steady.
 Best \$13.00@13.50
 Others 6.00@12.00

Sheep and Lambs.

Receipts 420. Clipped lambs slow; wool lambs and sheep steady.
 Best lambs \$ 15.00
 Fair lambs 12.00@14.00
 Light to common 9.00@11.50
 Fair to good sheep 7.50 @ 9.00
 Culls and common 2.00 @ 4.50
 Clip lambs 11.00@12.00

Hogs.

Receipts 2,670. Market slow.
 Mixed hogs \$ 8.80 @ 8.90
 Yorkers 8.80 @ 8.90
 Pigs 8.00 @ 8.25
 Heavies 8.00 @ 8.50
 Roughs 7.00
 Stags 4.00 @ 5.00

CHICAGO

Hogs.

Estimated receipts today are 20,000; holdover 8,973. Market steady to five cents higher. Bulk of sales at \$8.20@8.55; tops \$8.60; heavy 250 lbs up at \$8.20@8.45; medium 200 to 250 lbs at \$8.30@8.60; light 150 to 200 lbs \$8.40@8.60; light lights 130 to 150 lbs \$7.40@8.55; heavy packing sows 250 lbs up \$7.35@7.65; packing sows 200 lbs up \$7.15@7.40; pigs 130 lbs down at \$6@7.50.

Cattle.

Estimated receipts today are 7,000. Market is active and 10@25c higher; calves strong to 25c higher. Beef

steers medium and heavyweight 1100 lbs up \$9.80@10.15; do medium and good \$8.35@9.80; do common \$7.15@8.35; light weight 1100 lbs down \$9.35@10.10; do common and medium at \$6.35@9.35; butcher cattle heifers at \$5.75@9.85; cows common \$4.35@8; bulls bologna and beef at \$4.75@6.75; canners and cutters cows and heifers \$3.50@4.35; do canner steers \$3.75@5; veal calves light and heavyweight \$7.25@9.75; feeder steers \$6.35@8.50; stocker steers at \$5.25@8.15; stocker cows and heifers \$3.75@5.75.

Sheep and Lambs.

Estimated receipts today are 14,000. Market very slow. Lambs 84 lbs down \$12.75@14.65; do culls and common at \$9.50@12.75; spring lambs at \$9.75@13.50; ewes \$6.75@9.25; ewes cull and common \$3.75@7; yearling wethers at \$13.25@14.75.

BUFFALO

Cattle.

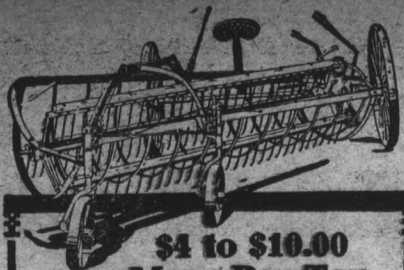
Receipts five cars. Market is steady. Choice to prime shipping steers 1,400 lbs and up \$9.25@9.50; good to choice shipping steers \$8.50@9; heavy fat of medium quality \$8.25@8.50; medium to good at \$7.50@8; light native yearlings fancy quality \$9@9.50; medium to good \$8@8.50; best handy steers at \$8.50@9; plain \$7@7.25; handy steers and heifers \$7.25@7.50; western heifers \$8@8.50; light Michigan butchering heifers \$7.50; best fat cows \$6.50@6.75; medium to good \$4.50@5; cutters \$3.50@3.75; canners good weight \$2.25@2.50; common and old rims \$1@1.50; 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 \$6.50@7; medium feeders \$6@6.25; stockers good at \$6@6.50; light common \$4@5; best milkers and springers \$60@80; common and medium \$35@45.
 Top calves at \$13.50.

Hogs.

Receipts 20 cars. Market is strong. Heavy \$8.75@9; yorkers \$9.25; pigs at \$8.75@9.

Sheep and Lambs.

Receipts six cars. Market is slow. Wool lambs at \$15.50; clipped \$13.25; yearlings \$13@14.25; wethers at \$10@10.75; ewes \$8.50@9.50.



\$4 to \$10.00 More Per Ton

Hay cured "Nature's Way" — air-cured instead of sun-scorched — contains more nutrition — grades higher. No additional work — no extra tools required. All you need is the John Deere-Dain System Rake — the only rake with inclined frame and curved teeth.

FREE BOOK — "John Deere-Dain System of Air-Curing Hay." Tells how to make hay that brings you extra dollars. Address John Deere, Moline, Ill., and ask for Booklet DB-822.

JOHN DEERE
THE TRADE MARK OF QUALITY MADE FAMOUS BY GOOD IMPLEMENTS

SMOKE on me FREE!



Have a Long, Sweet Smoke With Pete!

Men, here's a treat on Pete! Kentucky Home-spun! America's most particular smokers know it! The pure real genuine stuff. Bred and air cured as only Nature can do it in old Kentucky. Mellow! Tasty!

I'll Send You a Big Generous Helping of Old Green River—FREE!



Two pounds — TWO — Granulated and Long Cut. Free delight you never had before. Mention mild, medium or strong. No obligation — but I'll tell you how to cut your smoke cost in two. Write now.

Pete Heberly, Box 502, Owensboro, Ky.
Old Green River
Smoking Tobacco



The Panama TILTING DRUM MIXER

Priced under \$55. Freight prepaid.

Get this mixer and build permanent buildings for yourself and neighbors. Capacity 3 cu. ft. per batch. Make building blocks, porch columns, corn crib and silo molds, fence posts, tile, etc., with inexpensive molds we furnish. Order from ad. Pay on delivery. Satisfaction guaranteed.

The J. B. Roote Foundry Co.
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PROFITS FROM YOUR CORN CROP

Glazed tile, wood or cement stave silos. Glazed hollow building tile and mat face residence blocks. Permanent and economical. Special offer to farmers. **NATIONAL CLAY PRODUCTS and SILO CO.** Dept. 19 Muncie, Ind.

Blatchford's CALF MEAL



Write for chart No. C-29, "How to Feed Calves," giving important authoritative information for farmers. Send you FREE. **BLATCHFORD CALF MEAL CO.** Waukegan In business over 125 years Ill.

STRAWBERRY PLANTS

The real money makers — the worth while kinds — including the two BEST EVER-BEARERS. A good assortment of other profitable varieties. Also raspberry plants. Vigorous heavy rooted and true-to-name. 11 years experience in growing and packing plants. Reduced prices on large amounts. Our FREE CATALOG TELLS THE TRUTH — a valuable book for the grower. Write. **J. E. Hampton & Son, R. 3 Bangor, Mich.**

Marathon Cord Tires

For Speed-Strength-Endurance

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.

KALAMAZOO RUBBER & SUPPLY COMPANY
Michigan Distributors
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Big illustrated book tells about the Johnson Dust Sprayer which kills fruit, potatoes and truck of destructive pests, 7 times faster than spraying, half the cost. Simply send name for this interesting profit making book.

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1233 W. 8th, Kansas City, Mo.

PATENTS

Write today for free instruction book and "Evidence of Conception" blank. Send sketch or model for personal opinion.

CLARENCE O'BRIEN, REGISTERED PATENT LAWYER, 952 Southern Bldg., Washington, D. C.

POPULAR GARDEN FLOWERS
Choice collection, 12 different double Dahlias, 32 Large gladioli, 10 kinds, 25 bulbs \$1.00 for \$3.50, prepaid. My selection will beautify your house. Catalog. **HENRY ENGEL, R-1 Finleyville, Pa.**

WOULD YOU give \$2.50 for as good a strawberry garden as ever was sold for \$2.50. Kello's Premier, 25 plants; Senator Dunlap, 25 plants; Dr. Burrell, 25 plants; Ridgway, 25 plants; Asparagus, 25 plants; All for \$12.50 delivered. Write for circular and price list today.

O. D. THAYER, Three Rivers, Michigan.

THE EGG CONTEST.

SHAW'S pen from South Haven are still leading the contest. In fact, it is widening its margin of lead. At present it has a total of 896 eggs to its credit, and during the week it was second in the total number of eggs produced for the week, with a production of fifty-one eggs.

Second in the contest are the Wyandottes belonging to the Evergreen Poultry Farms with 816 eggs, and third comes Brummers' Poultry Farm, Plymouth Rocks, with a total of 778.

As a whole, the highest production for the week comes from the lighter breeds. While the heavy breeds have dropped in production considerably during the past month, they are now making slight recovery.

The high pen in the Ancona class is that belonging to A. R. Van Raalte, with 508 eggs to its credit. Next comes the pen of E. N. Manning, with 489 eggs. The leading pen of Rhode Island Reds laid 604 eggs and belongs to L. O. Dunning. The Reds belonging to Mrs. P. S. Travis comes second with 586.

COUNTY REPORTS.

Benzie County. — Winter grain is buried under snow, but in all probability, is in good condition. Fruit buds are promising. Farmers selling eggs and cream. Eggs bring eighteen cents. Potato market has not opened up yet. Many potatoes being fed. The fruit growers seem to be our most prosperous farmers, and they, to succeed, must be well experienced at their job. — W. A. M.

Genesee County. — Farm help is very scarce. Offering as high as \$60 to married men, furnishing house, wood, etc. Most farmers plan to get along with as little help as possible. Wheat has suffered with freezing and thawing. Many auctions. Sheep are selling very well, hogs good, cattle fair, and horses poor. Farmers are getting up wood, attending sales and preparing for spring work. Side roads are either very rough, or deep with mud. — L. R. P.

Huron County. — Condition of winter grain is fair. Beans are not coming to market in any large volume. They are quoted at \$7 per 100 pounds. Farmers are attending auction sales where the property is bringing good prices. There is a scarcity of farm labor. Help is being offered around \$45 per month and board. — C. R.

Alpena County. — Hay is now selling at \$6 per ton. Cloverseed \$12 per bushel; wheat \$1.10; oats fifty cents; barley \$1.25 per cwt. Snow is still two feet deep and cannot tell how the winter grains are. Labor is scarce. Some farms will likely lie idle because of the labor shortage. — L. B. L.

DIRECTORS FOR TUSCOLA COUNTY FARM BUREAU COSEN.

SEVEN new directors for the Tuscola County Farm Bureau were elected March 13 at the annual meeting of the association. They were: M. D. Lynch, Silverwood; Henry Lane, Fairgrove; Dorr Perry, Caro; Albert Ruggles, of Kingston; Edward Colling, Fostoria; Frank Baker, Vassar. A meeting called for early April will outline plans for the membership drive and select officers for the ensuing year.

Clark L. Brody, secretary-manager of the State Farm Bureau, addressed the meeting, telling of the work of the bureau in the past and of the results that were hoped for in the future. Regular reports were read by the county secretary and county agent, and accounts of the recent state meeting at Lansing were given by the delegates from the County Farm Bureau. — Mills.

The best time to fertilize fruit trees is just before the buds show pink.

CLASSIFIED ADVERTISING

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

Rates in Effect October 7, 1922

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

Special Notice

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

MISCELLANEOUS

BOYS, GIRLS — 15 big packages cucumber seed post-paid \$1.00; value, \$1.50. Recommend them to your friends. Very heavy bearer, excellent pickling, tender slicing, Michigan grown. Absolutely 1922 crop. This means dependable, quick germination — the seed your neighbors want. Guarantee: money refunded for seed returned. Order now, pay when received. Sweet Home Seed Farm, Pentwater, Mich.

HOMESPUN TOBACCO. Chewing, 5 pounds, \$1.75; 10 pounds, \$3; 20 pounds, \$5.25. Smoking: 5 pounds, \$1.25; 10 pounds \$2; 20 pounds, \$3.50. Send no money, pay when received. CO-OPERATIVE TOBACCO GROWERS, Paducah, Kentucky.

KENTUCKY NATURAL LEAF TOBACCO — Chewing, 5 pounds \$1.75; 10 pounds \$3.00; 20 pounds \$5.25. Smoking, 5 pounds \$1.25; 10 pounds \$2.00. Send no money. Pay when received. Farmers' Co-Operative Tobacco Union, Paducah, Ky.

CONCORD GRAPE plants \$30.00 per 1,000 up. Gibson strawberry plants, none better, \$4.50 per 1,000. Black and Red Raspberry plants, Gooseberries, Currants. Send for price list. Abwenders Nurseries, Three Oaks, Mich.

TOBACCO, extra quality, hand picked, nothing shoddy, satisfaction guaranteed. Chewing, smoking and mild smoking; 5 lbs. \$1.75, 10 lbs. \$3.00. Send no money, postage unpaid. Chas. Goff, Hardinsburg, Ky.

TOBACCO — Extra Smoking, 5 lbs., \$1.00; 10 lbs., \$1.50; 20 lbs., \$2.75. Chewing, 5 lbs., \$1.50; 10 lbs., \$2.75. Quality guaranteed. O'Connor Smokehouse, S. 133, Mayfield, Ky.

SPEEDAWAY Farm Golden Russet Certified Seed Potatoes. Single bushel or car-load lots. Write or wire for prices. Geo. Harrison, Manton, Mich.

SILVER FOXES — Highest quality registered stock. Special prices on this year's pups to early buyers. Volmari & Hughes, Muskegon, Michigan.

FENCE BUILDER'S WIRE SPlicer, after 30 days trial send 25 cents or return splicer. Geo. D. Lockwood, Ypsilanti, Mich.

SEED CORN — Adapted to Michigan conditions. Ottawa Silver King and Pickett's Yellow Dent. Send for circular. Frank Hambleton, Coopersville, Mich.

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

FOR SALE — Northern grown Hubam Sweet Clover, bu., \$16.00, or write for samples. Henry Banknecht, R. 4, Midland, Mich.

CERTIFIED WOLVERINE OATS, Michigan's leading variety, 99.8% pure, 98% germination. Shipment made promptly. C. D. Finkbeiner, Clinton, Mich.

Two San Soy Beans, certified Worthy Oats. G. P. Phillips, Livestock Auctioneer, Bellevue, Mich.

SEED POTATOES — Certified Potatoes. Northern grown. Butternut Farm, Lupton, Mich.

FOR SALE: Oliver No. 78 Two Bottom 14 inch Tractor plow. Box 26 Yalmar, Mich.

DOGS

HOUNDS, HOUNDS, HOUNDS, Fox, Coon, and Rabbit Hounds, broke to gun and field, started hounds and puppies all ages. Beagles and choice puppies, 10 cents for photos of hounds. H. O. Lytle, Fredericksburg, Ohio, Dept. Z.

GERMAN Shepherd, Alredades, Colles' Old English Shepherd dogs; Puppies; 10c illustrated instructive list. W. R. Watson, Box 35, Macon, Mo.

REGISTERED COLLIE PUPPIES, \$10 and up. Silvercrest Kennels, Gladwin, Mich.

POULTRY

STALE BREAD for chickens and hogs, 2c a loaf. Also once used egg crates, car load 15c each, less than car load 15c each, Detroit. Wm. Spitz, 2645 Chase St., Detroit.

PULLETS. Barron English White Leghorns, eight weeks to maturity. May to October breeding flocks repeatedly culled by experts. Extra large and vigorous, wedge shaped bodies, big topped combs. "Lay-bill" in every way. Also breeding cockerels. Satisfaction and more money back. Morse White Leghorn Farm, Belding, Mich.

RHODE ISLAND REDS — Rose Comb Cockerels, hen-batched, farm raised. Big, thrifty dark colored birds from prize winning strains, \$4 to \$7.50. Two specials at \$19 each. Careful attention to mail orders. Bidwell Stock Farm, Tecumseh, Michigan.

WINGOLD BUFF ORPINGTONS — Best Display winners at Cleveland and Pittsburgh many years. Great winter layers, ideal market fowl. (Flock average 248 eggs). Eggs, \$3.00 per 15; \$5.00 per 30; \$15.00 per 100. Order direct Mating list free. F. A. Poertner, Box M, Berra, Ohio.

HATCHING EGGS, S. C. White Leghorns, Orpingtons, Good winter layers, Toulouse and Chinese Geese, Reuben Ducks, Kinzel's Poultry Farm, Berg and 10 Mile Roads, Birmingham, Mich., Route 1.

S. C. White Leghorn Cockerels from heavy egg-producing strain. These cockerels approved as breeders by Prof. Foreman, \$3.00. Mrs. Orl Ferguson, Route 6, Ann Arbor, Mich.

TANCRED STRAIN. Free range, vigorous, heavy-laying, yearling S. C. White Leghorn breeders, mated to full blooded Tancred Cockerels. Eggs \$2 per 15, \$1 per hundred. Olare Camburn, R. 3, Tecumseh, Mich.

TEN PURE TOULOUSE GOOSE EGGS, \$4.75. Insurance and Parcel Post paid. Choice White Leghorn baby chicks, \$12.00 per 100. Amy Southworth, Allen, Mich.

SINGLE COME REDS — Arnold's Strain. State Cup Winner. Hatching eggs \$3.00 per fifteen, \$5.00 per thirty. Harry Thels, 283 Hunter St., Battle Creek, Mich.

BARRED ROCK Hatching Eggs. Parks 200-egg strain, \$2 per 15, \$5 per 50, \$10 per 100 by prepaid parcel post. R. G. Kirby, Route 1, East Lansing, Mich.

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

BARRED ROCKS — Smith's large strain. Get the best. Eggs three dollars for fifteen, prepaid. No stock for sale. A. K. Smith, Conway, Mich., Route 1.

BRED-TO-LAY Barred Rock hatching eggs. Parks strain. \$1.50 for fifteen postpaid, orders booked and filled promptly. P. L. LaVanture, Cedar, Mich.

WHITE LEGHORN COCKERELS direct from Ferrara, 300 egg strain, \$5.00. Blanche Boss, Ellsworth, Michigan.

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

PEAFOWL. Pheasants, Bantams, Pigeons, Free circular. JOHN HASS, Pettendorf, Iowa.

BABY CHICKS

CHICKS GUARANTEED — Healthy, sturdy thriving chicks. Flocks that are mated with Michigan Agricultural College cockerels, Barred Rocks, S. C. Anconas, White and Brown Leghorns, pullets and breeding cockerels. Safe arrival, postage paid, catalog free. Fairview Hatchery and Poultry Farms, Route 2, Zeeland, Mich.

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

ANCONAS — "Superior Quality" Baby Chicks and Hatching Eggs from our prize winning, heavy laying M. A. C. selected breeding stock. Prices reasonable. Satisfaction guaranteed. Catalog. Mannings Ancona Farm, Coldwater, Mich.

ORIGINAL Rock Dr. Heasley Egg Basket Strain, Buff Leghorn Chicks, Breeding Hens and Cockerels. Also Tom Barren English Strain White Leghorn Chicks and Barred Rocks. M. A. C. Stock. Circular free. Hillside Hatchery Farm, Holland, Mich., R. 3.

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

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, Anconas, Rocks, Reds, Wyandottes, Orpingtons, Minorcas, Spanish, Brahmas. Tyne Poultry Farm, Fenton, Mich.

ANCONAS — Sheppard's famous strain direct. Foundation stock from Sheppard's first pen. Chicks at farmers' prices. Jacob ver Duin, Route 4, Zeeland, Mich.

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

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

CHICKS — S. C. W. Leghorns \$12 per 100. R. I. Reds \$15 per 100, delivered. 100% alive guaranteed. Reduced prices in 1000 lots. Waterway Hatchery, Route 4, Holland, Mich.

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.

RICHARDSONS ROCKY RIDGE pure Park strain Barred Rock Baby Chicks, \$16 per 100. Hatching eggs \$2.00 per setting. Hanover, Mich.

CHIX \$12 per hundred up. Big, fluffy, vigorous, eight pure breed varieties. Eighth season. Circular free. Silver Spring Hatchery, Box 55, 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 300, 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.

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

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

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

TANCRED and Hollywood White Leghorns direct. Eggs and chicks. Prices right. Circular. Maple Haven Farm, Jackson, Mich.

S. C. REDS hatching eggs, \$6.00 per 100, few chicks \$16.00 per 100. E. F. Cryder, Alamo, Mich.

HELP WANTED

WANTED — At once, married man with small or no family, for general farm work. Modern house furnished. Man must be clean and tidy in every respect. Give references as to character and ability, and state salary expected in first letter. None but good men need apply. Address Box S-13, Michigan Farmer.

WANTED — Representative in each County to sell small farm tractor. Unusual opportunity to one that can devote time to proposition and has wide acquaintance among farmers. Small capital required. Write now. LACK BOX 212, Dowagiac, Mich.

WANTED — Man for general farm work. Either married or single. Courtland Marshall, Conley, O. R. 30.

SALES RUN HIGH.

OF the seven farmers' live stock commission houses in the country five stood in first places in their respective markets during the week ending March 10. The number of cars handled by the first-place companies are: Chicago, 310; St. Louis, 183; Indianapolis, 173; Buffalo, 170; Peoria, 40.

FARMS CHANGE HANDS.

IN a recent survey made by the United States Department of Agriculture nearly 1,250,000 farms changed occupants in 1922. This number makes the proportion about one farm out of every five which had some change of ownership or tenancy during the past year.

The actual change in ownership was one out of sixteen, or nearly 400,000 farms; and in general more farms changed owners in the west and south than in the New England and central west states.

Of the 2,300,000 or more farm tenants in the United States, over 625,000 changed their scene of operation during that year. More than seventy-five per cent of these tenant changes occurred in fifteen southern states. The per cent of farm-changing tenants ranged from three per cent in Maine to thirty-eight per cent in Oklahoma. Seven southern states showed a change of more than thirty per cent.

Although the number of tenant farmers in the United States shows a number of 200,000 for the year, more than 230,000 tenants either discontinued farming for some other occupation or left their communities for parts unknown to the United States Department's correspondents.

OUT-STATE MEN LIKE MICHIGAN.

DURING the past few years, many men from outside the state have applied for and received county agent jobs in this state. Also every little while the Canadian government sends a number of extension men to learn our methods.

One wonders at the reason for this, and an inquiry of one of the men who came from another state brings forth the reply that the reason why Michigan is liked is because she is doing things. Michigan county agents have gotten out of the idea that their sole duty is to teach the farmer to make two blades of grass grow where one grew before, but instead he tries to help the farmer with all the problems that confront him. The results of these efforts are reaching other states and agricultural leaders are anxious to learn how it is done.

Undoubtedly we who are in the state are too closely associated with the work to be in a position to compare our college extension work with that of other states. But the people who are in a position to judge fairly say that Michigan ranks as a leader in doing real constructive work for the farmer. For that reason, leaders in agricultural work in other states often wish to come here to study our methods. During the past year seven men from out of the state have been given positions here. All of them previously had extension experience in other states.

TUBERCULIN TEST ACCURATE.

THE tuberculin test as now used in the detection of diseased animals is highly efficient. Out of eight hundred and sixteen tests made during the past twenty-two years by the Geneva Experiment Station, only three instances occurred in which there was some doubt as to the accuracy of the method.

The Good MAXWELL



High-Grade Qualities Never Before Known In Low- Cost Manufacture

Low-cost, high-quality manufacture on a large scale, builds into the good Maxwell the qualities heretofore confined to cars far higher priced.

They make, first, for reliability and economy to a degree unique among cars of this price-class; second, for long life and light expenditures; third, for a degree of easy riding that is exceptional.

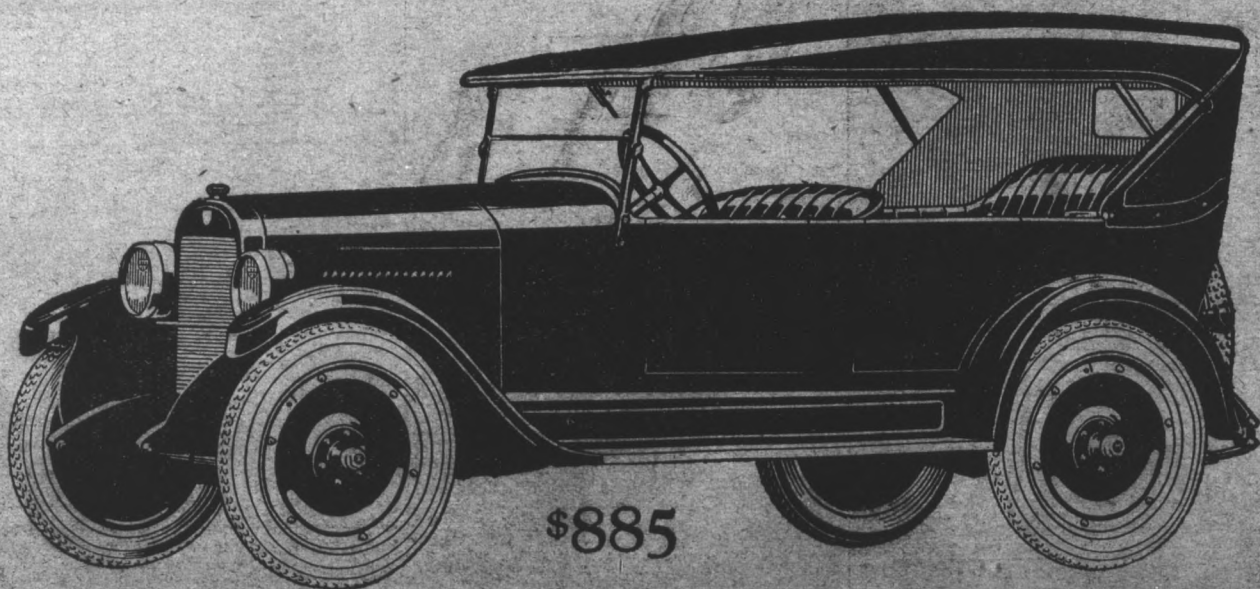
They are the qualities which the farmer recognizes at once and wants above all else; qualities which enable a dealer to stand back of the product with all his resources.

Uncommon beauty first gave the good Maxwell its firm grip on public regard.

But it is the goodness, down underneath the beauty, that is sweeping it rapidly on to topmost place in its own market, and that demands attention from the man who must have the greatest return for his motor car money.

Cord tires, non-skid front and rear; disc steel wheels, demountable at rim and at hub; drum type lamps; Alemite lubrication; motor-driven electric horn; unusually long springs; new type water-tight windshield. Prices F. O. B. Detroit, revenue tax to be added: Touring Car, \$885; Roadster, \$885; Club Coupe, \$985; Four-Passenger Coupe, \$1235; Sedan, \$1335

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