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LIFE has numerous roads, many highways and byways, many crooks and turns, that the way is often confusing. We go blindly at times, at others we see the clear road, but often we think we see the way clear but only find a mirage at the end. Only too often we do not know whether we are on the road of Construction or the one of Destruction. We don't know where we are going, but we are on our way.

And why do we find ourselves amidst such perplexities and confusions? We certainly do not choose them. But do we not choose the conditions which bring them about? Do not all of us have the strong desire to hobnob at times with destructive forces? Do we not all have impulses which make us want to court evil? And is it not because we compromise with these things that we come to confusion and perplexities? Yes, these things are so, for they are part of life and it takes foresight, judg-

Whither Are We Going?

ment and determination to ignore these factors in life.

And so it is in all the activities of life. In farming we all know the way. We know that better bred cattle means more bread for us, and that the judicious use of fertilizer will bring with certainty increased returns in the pocket book. But, we suffer with ennui because we do not know these things convincingly enough to stir us to action. And, therefore, we worry along because we find it easy to compromise with what we know are not good agricultural practices. It takes a new and more convincing presentation of facts, in other words, it takes education, to stir us into enough action to break away from this compromising attitude.

Our civilization is involved in a race between education and catastrophe and in

this farming has an important part. Agriculture is the balance wheel of civilization as

well as the feeder of the people. Unappreciated, like the mother is often unappreciated by her children, it nevertheless keeps civilization from going headlong into destruction.

Agriculture produces sturdy humans, many of whom go forth in the world to replace those who the rush and rankling of the city has worn out.

It is necessary that farming remain steadfast in its fundamental goodness and in demanding its just award.

As each of us become more proficient in our agricultural and business practices we add to the influence of civilization's balance wheel. If we will all wake up and learn to raise such farm products that pay, as are shown above, we can feel sure that catastrophe will lose out in the race, and that civilization will remain sound.



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State Size

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NUMBER FOUR

Market Quality of Michigan Potatoes

Although Much Can Be Done to Improve Methods of Handling, the Eating Quality of Michigan Spuds is the Best. By J. W. Weston

A RECENT study of the potato situation on the Detroit, Toledo and Cleveland markets has brought out some interesting facts as to the comparative value of Michigan stock and those potatoes from other sources. This study was for the purpose of determining market demands and their relation to the development of production in Michigan along the right lines and to find out why Michigan potatoes of this season's crop were quoted at lower prices than potatoes from certain other states.

On the Cleveland market, December 15, Michigan potatoes were quoted at \$1.50 to \$1.65 per 150-pound sack; New York potatoes \$2.00; Ohio potatoes \$1.75. At Pittsburgh, Michigan potatoes were quoted at \$1.50 to \$1.60; Pennsylvania, \$1.75@1.90, and New York, \$1.75 to \$1.80. Michigan potatoes were then discriminated against to the extent of thirty to thirty-five cents per 150-pound sack. The condition on January 5 was more marked between Michigan and New York, Michigan being quoted at \$1.40 and New York \$1.95, and the New York offers being accepted.

On account of the dark color and poor market quality of Michigan potatoes on the Cleveland market, Michigan potatoes sell at a disadvantage. The consumers there have been educated to use a white potato of more attractive appearance and better market quality, even at a sacrifice of the better eating quality which the Michigan potato possesses. The bulk of stock used on the market at this time comes from Michigan and New York,

with some from Wisconsin, Minnesota, Idaho and Colorado.

Some of the chief reasons why the Michigan potatoes are at a disadvantage on the Cleveland market is due to the large amount of potatoes of poor market quality. This is shown by a lack of uniformity of stock, variation between cars, and often between sacks in the same car.

Eating Quality of Michigan Potatoes.

The cooking quality of Michigan potatoes was generally agreed to excel or equal any except the quality of those coming from the Virginia east shore, Long Island, Colorado and Idaho. The advantage due to better eating quality is largely lost because of the poor market quality of much of

the Michigan stock, a situation which can be remedied before shipment greatly to the Michigan potato growers' advantage. With more careful grading, Michigan potatoes could bring the top prices offered by the market.

Better Grading Movement Necessary.

Grading of the different lots of potatoes showed that much can be done along this line. Samples examined in the warehouses showed that from eight to 36 per cent of the potatoes should have been left on the farms and fed to the live stock of Michigan. An average of twenty-five per cent of the weight of potatoes examined belonged to this class. The chief offenders were the under-sized and the over-sized rough, deep-eyed, peanut-shaped, point-

ed, sunburned and scabby potatoes, a majority of which would find their way into the garbage can rather than onto the consumers' table. There were altogether too many mechanically injured and fork-pricked tubers that showed yellow, blue or green mold, which would cause considerable loss in preparation for eating.

The appearance of the potatoes was very much affected by this moldy condition. This comes probably as a result of poor ventilation in the storage places at point of origin, or during transit. Whatever the cause may have been, the effect was to give the potato a dark and unattractive appearance. The bad lots hurt sales of good stock from Michigan.

Another complaint was the time it took to get a car of potatoes from Michigan shipping points to the Cleveland market, often consuming five days to two weeks in transit.

The frosted potatoes are not giving much trouble at this time but had been a serious question during November and December. The hollow-heart was more pronounced in the large potatoes. It was the opinion of Mr. Ray C. Bish, bureau of markets representative at Cleveland, that their inspection service showed more hollow-heart in potatoes from Michigan, Wisconsin and Maine than in potatoes from New York. More careful grading to eliminate the over-sized potatoes at point of origin would undoubtedly reduce the percentage of hollow heart in the Michigan potatoes.

(Continued on page 105).



The Best Place to Grade Potatoes is in the Field. Small, Injured, or Sunburned Tubers Should be Kept on the Farm.

Senator Capper's Washington Letter

FRENCH troops are now occupying the Ruhr Valley, Germany's greatest industrial center. American troops are coming home from the Rhine.

Thus, after four years Europe is face to face with a situation which diplomatic fencing has failed to avoid.

Withdrawal of American troops is being variously interpreted. It need not be. The United States government is determined to keep hands-off, and it is the part of wisdom that it should.

American soldiers have had no business on the Rhine for months. Prior to their withdrawal the senate asked that they come home. Their presence in an area aptly described by Senator Reed, of Missouri, as a "hell-pot" would mean that eventually the United States would be involved in the trouble over there.

Neither the government nor the American people care to shed more American blood.

There was a time when the President, mindful of Europe's troubles, wanted to be helpful. That time has passed, for the present at least. No

further American moves are now contemplated.

Europe will recover its sanity some day. America hopes soon. When it does the United States will be ready to lend a helping hand.

Partisanship Being Forgotten.

Senators and congressmen, both republican and democratic, have forgotten factional differences during the European crisis. This is a hopeful sign. Loud talking will do no good, but will do much harm. This is a time when not only legislators and other public servants, but the individual citizen, must take care not to aggravate the situation. They must remember that "words better unsaid may come back to grieve us when we think them dead."

England Will Pay Its Debts.

The British Debt Funding Commission in Washington, negotiating with the American commission on the allied loans, makes the positive promise that England will pay its debts.

This is cheerful news to the overburdened farmer and the other taxpayers. Every dollar of principal and interest paid by England on this debt means a corresponding reduction of a

dollar in the amount of taxes congress must assess to meet the obligated and current expenses of the government.

Terms of the payment have not been agreed upon. It may be that congress will have to amend the law in order that greater leniency can be given in the method of payment.

There should be no objection to this. The important question is that the debt will be paid.

If assurance can be gotten, at some future time, that France and Russia and Italy and Belgium will also pay, there can be hope for a substantial reduction in the burden of taxation.

Buyers of Liberty Bonds gladly consented to loaning this money to the allied nations. At no time did they regard it as a gift. Now, after four years, they are even less inclined to do so.

President Contributes to World Peace.

A significant contribution by President Harding to the cause of world peace has just come to light.

Informed by the state department that a European nation wanted to buy 500,000 surplus army rifles the President promptly vetoed the proposal

without permitting details of the offer to reach the war department.

Earlier in his administration he directed that no surplus guns be sold to individuals or companies.

Mr. Harding announces that as long as he is President the United States will never permit the sale of guns with which man can kill his fellow man.

With a single word the President strikes at the root of the evil of world conditions. Since time immemorial ease with which men and nations could obtain munitions has caused individual and national bloodshed.

He deserves the plaudits of the Christian world.

Some day greedy munitions makers will be stopped. Then a real period of "peace on earth, good will to man" will come.

This government and other governments can and should take note of what the President has done. Out of this example may come a sure-enough move towards international disarmament.

Arthur Capper



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DETROIT, JANUARY 27, 1923

CURRENT COMMENT

THE MICHIGAN FARMER SAYS:

Success is the accomplishment of what one sets out to do.

Many men are kept from making a success by the necessity for making dollars.

The water you give your cattle has to be warmed either by the cow or by you. If the cow warms it, it takes food; if you warm it, it takes wood. If food is cheaper than wood let the cow do it.

The Drainage Problem

SEVENTY per cent, or more of the farmers of Michigan are interested directly in the question of drainage. One-third of the improved land in our farms, or four and one-half million tilled acres, is in need of artificial means for carrying away surplus moisture.

Water control is the one big factor in crop production. Many of the hazards in growing cereals, and hood-crops in particular, are reduced, or removed, through tile drains. By them the farmer's labor problem is simplified while yields are increased. Since lower costs and higher production is the basis of all successful businesses, it seems then to us at least, that here is one factor which should be given the closest consideration by the farmer and by those who are seeking to aid in the solution of practical farm economies.

How will tile drains cut costs? They enable the farmer to start the plow a week or ten days earlier in the spring. Often the man working drained soil will have his crop in before the neighbor can get upon his wet fields. Cultural work is done easier and better, and with larger units of labor-saving farm machinery. Cat-holes, low places, dead-furrows and open ditches are largely done away with, to the economic advantage of both man and horse labor and of the machinery.

Drains also improve crop production. Often they enable the farmer to adopt a better rotation of crops—one more suited to his soil and climate and to his local markets. Furthermore, with the water under better control, the farmer can stick closer to the rotation chosen. Tile-drained land warms up more quickly in the spring, giving the crop a longer season in which to grow. A finer seed-bed also insures a more perfect stand, and an earlier, unstunted growth. Roots mine deeper

in the more open soils, resulting from good drainage and, therefore, get more plant food, find a larger supply of available moisture, have the benefit of more soil protection in periods of drought, and are favored with a larger volume of air which aids helpful bacteria to prepare plant food.

Now, we do not want to be understood to criticize the culling of poultry flocks, the testing of cows, the clearing of land, the surveying of the state's agricultural possibilities. These services strike at the very root of evils in our agricultural practices. But we venture to say that the full realization of any one of these other advantages would fall far below the results that would accrue to the farmers of the state by the establishment of good tile drains where they are needed.

We merely suggest, therefore, this question, "Why not a drainage demonstration train?"

The Pioneer Road State

MICHIGAN, that state unpretentiously sticking up in the waters of the great lakes, has in many ways been a factor in things that have had a nationwide influence. For instance, it is the birthplace of the republican party; it started the first rural free mail delivery route; it is where the cow-testing association was born; it had the first state agricultural college, and it has been the starter, and still leads in many other things. But in another way this state has added to its accomplishments.

Years ago automobile springs were poor and the roads were rough, and, therefore, the going tough. But now the springs spring, and we have taken the kink out of the roads so that they are better than the sidewalks used to be. And we ride with the ease, speed and comfort that the Court of King Arthur would envy and the Sultan of Zulu knows nothing about.

For all this Michigan is responsible. For here was perfected the auto and its springs. And, also, here was made the first automobile "sidewalk," the popular concrete road of today. In 1909 the Wayne county road commissioners in cooperation with "Good Roads" Earle, then state highway commissioner, built one mile of the world's first concrete road, and incidentally made the greatest advancement since Telford and MacAdam gave the world their methods of road building. This road was on Woodward avenue, Detroit, near the State Fair Grounds, and was so well built that it was still very good for traveling after thirteen years of service. In 1922 it was pulled up to be replaced by a larger road.

Many farmers will recall the good roads discussions in the old farmers' institutes. These discussions were a part of the pioneering of the present method of road building. Michigan, both rural and urban, can consider it as her accomplishment that she put the world on wheels and then gave the wheels a good place to go. She has done much to make our neighborhoods larger and broaden our individual fields of activity.

Polute Not the Source

THERE is cause for encouragement to the farmer in the fact that public sentiment is rapidly turning in his favor. Every cloud has its silver lining, and the silver lining of the dark clouds that have been hovering over the farmer, is beginning to show up in the concern of city people for his welfare. Why this concern?

The curtailed buying power of the farmer is being seriously felt by business in general, and the attention of the public is being focused upon his problems to a much greater extent

than is customary. These attentions are leading to investigations that are shedding a great deal of light upon the economical importance of the farm in the life of the nation. For example, an investigation recently made in one of our leading large cities disclosed the fact that eighty-five per cent of its successful business men came directly from the country, and ninety-eight per cent of them sprang either from the country or from country-bred parentage.

With these facts in view, it is evident that the rapid rise of the city has been due to a source of human supply that is laden with vitality and ideals such as the quiet, healthful life of the open country only can instill. People who are concerned for the future welfare of their cities are realizing that their city's progress and prosperity, in fact, the very life of the city eventually, depends upon a satisfying contented country life. They are, therefore, seeing that the source of their supply of vitality must be kept pure and wholesome, and in order to keep it so there must be a degree of prosperity in the open country that will attract and hold to the farms a high type of American citizen.

Be Courteous Always

THE tourist traveling over the state today finds a great many things to engage his attention. Among them are the numerous kinds and designs of sign boards and signs at the limits of towns and villages. City fathers have taxed their wits to put in few words and big letters the thing which their town wished most to say to the world in transit.

As we enter one town we are admonished to "Drive Slow," another says, "What's Your Hurry," another with a show of civic pride reads thus: "Watch Us Grow," and still another in commanding style fairly shouts at us, "Observe The Law." Entering a neat little village over toward the eastern side of the state recently we read the name of the town on an attractive sign board and beneath it just these words, "Be Courteous." That sounded friendly and naturally we warmed up toward the little place. Perhaps little more would have come of it had not our vision the following moment been affixed by the old familiar expression, "Safety First."

Instantly the meaning of these two maxims presented itself in contrast, the former appealing to us to think of others, the latter warning us to take care of ourselves. I thought how typically American that "Safety First" sign, and how perfectly it seemed to fit us, but how thoughts of self, thoughts constantly turned inward are responsible for much of the misery and suffering in the world today.

To be courteous we must turn the flow of our thoughts outward, away from ourselves and toward others, and there is great need today for just that thing. Kindness and consideration toward others makes happy homes, delightful business relations, and many friends. Genuine "Courtesy" in society, in business, in politics, in international affairs, is what the world needs to redeem it from the plight in which selfishness and greed are causing it to flounder.

High-brow Words

THE other day we got a letter from a reader, a farmer, too, which said that farmers raised roosters instead of cocks, and cockerels, and trimmed trees instead of pruning them. He inferred that many farmers did not know what the words cocks, cockerels and pruning meant.

No one has a complete knowledge of the language, as it is very elastic, New

words appear every day which express with much less effort what several words expressed before. Other new words come with new activities. The automobile and aviation industries have in themselves brought many new words.

While it is impossible for any of us to keep strictly up to date on language, we feel sure that most farmers know that prunes and pruning need not necessarily refer to the same thing, and that a cockerel is not an insect but a young rooster. Also, from personal experience, we believe many farmers, as well as many city folks, know that people can be trimmed as well as trees. The chief difference between the trimming of trees and people is that one is beneficial to the common good, while the other is not.

Now, it is hardly possible for all of us to be high-brow enough to know that aqua pura is not a disease but means just plain water; that an allium cepa would bring tears to your eyes if it is cut, because it is an onion, and that Solanum tuberosums are a drug on the market and for that reason many farmers are feeding potatoes to their stock. But really, it doesn't make any difference if we prune or trim, or cull roosters or cocks and cockerels, as long as we do them in accordance with the best knowledge available.

Talkin'

TALKIN' is the human beings' most convenient way of makin' a noise. It is also the hardest way of lettin' folks know what you mean.

For inst., I kin say, "I am dry," and right away most fellows will pull out from their hip pockets a bottle of forty per cent foolish water. If I say it where there is old maids they will say, "Just a minute, I will get you a cup of tea." When all I mean is that I did not get wet 'cause I carried a umbrella.

A lawyer kin make what you say mean anything he wants it to, even if it

is hard for you to make other folks know what you are talkin' about.

There is a sayin' that "still waters run deep," which ain't got nothin' to do with the makin' of devil water. It means



that some folks make a lotta noise with their mouths, what usually don't mean much, 'cept that maybe they is entertainin' you with a lotta tongue music which ain't entertainin'.

Talkin' is more satisfyin' to the one what's doin' it than it is to the one what he is doin' it to. To be a good listener is to look pleasant while you are havin' your ears grated.

Talkin' may be easy, but it ain't always convenient. For inst., a Chinaman and a negro could talk to each other all day and not hear nothin' but noise. Lots a times, two what is talkin' English kin do the same thing and get the same result.

Moshuns is more universal than language, 'cause the beggar of Bagdad kin let the Merchant of Venice know what he means by his moshuns.

Girls know the language of the eyes is more effishunt than the language of the mouth. Older women forget how to use that language, but the older men never forget to understand it.

When folks don't say much, what they say means more. When you supply the market with more talk than can be consumed it cheapens itself. That's why so many folks say, "talk is cheap."

I think I've said about a nickel's worth already, so I'll quit.

HY SYCKLE.

Tile Drains Cut Cost

This Faith Is Firmly Held by Sanilac County Farmers

By A. J. Bell

THE recent depression in agriculture has not ruined the faith of the farmers of Sanilac county, as has been shown by the amount of tile drainage that has been installed this year.

The Extension Service of the Michigan Agricultural College, in conjunction with the Sanilac County Farm Bureau, started a drainage campaign last fall by holding meetings at Brown City, Marlette, Peck, Croswell, Sandusky, and other points in the county.



Using the Tractor to Fill Trenches.

At these meetings the benefits of drainage were explained fully by Mr. O. E. Robey, drainage specialist of the Michigan Agricultural College, and the names taken of all the farmers who were interested in drainage, or who had drainage problems that they could not solve themselves.

A plan was also outlined whereby a farmer could have his farm surveyed and a system installed at a comparatively low figure, but the farmer in return was to allow his plot to be used for demonstration purposes, one demonstration to be held while the machine was at work and others at intervals during the season following.

A large number of farmers availed themselves of this opportunity and Mr. Robey was busy most of the summer surveying these farms and determining the best system to install. To date there have been several hundred acres drained and, in addition, several farmers have stated that they would drain next year.

On the farm of Mr. W. W. Frey, of Brown City, twenty-two acres of land were tile-drained. Although these twenty-two acres produced ninety-five loads of alfalfa hay last year, the owner feared severe heaving as this land is a heavy clay and slightly soggy. In this system a six-inch main was placed parallel to an open county drain and the four-inch laterals, which were four rods apart were connected to the mains. Although only twenty-two acres of this 120-acre farm was installed, it was planned so that the rest of the farm could be drained by hooking on to the part already put in.

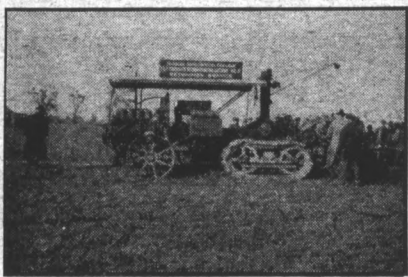
The farmers who have drained and the agricultural departments of the Brown City, Sandusky, and Croswell High Schools are cooperating with the Michigan Agricultural College in se-

curing data relative to the depth and distance apart the drains should be placed. In Michigan it has been customary to place the tile lines two and one-half feet deep and four rods apart, but in other sections of the country it has been thought that lines fifty feet apart give much better satisfaction. It is to determine this that these experiments are being run.

The students of the agricultural departments will collect the data and record it on blanks furnished by the college, and then turn it in to the instructor in agriculture. He, in turn, will send it to the college where it will be graphed. This graph will show conclusively the condition of the soil at the drains and at stated intervals away from the drain as well as under similar conditions on undrained land.

It is planned in the future to keep records of the yields, time of sowing, and time and seed required to replant because of too much moisture, and compare them with the data received for the last five years. Signs will be placed on the plots and tours will be made occasionally so that the public will be able to see the benefits obtained.

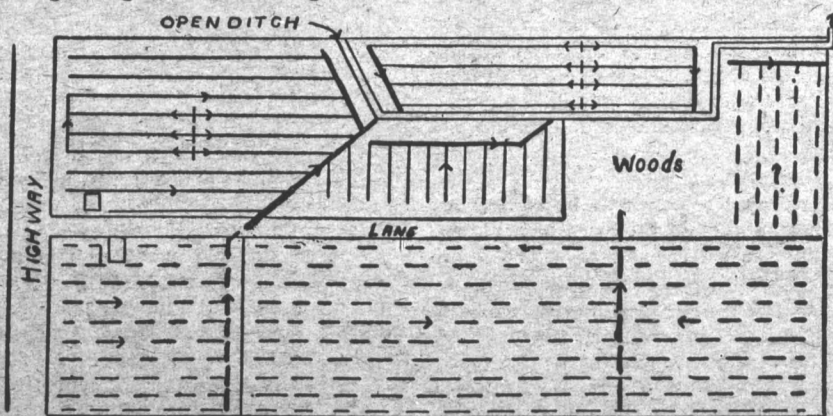
Sanilac county is rapidly becoming one of the leading agricultural counties of Michigan. Although it stands tenth in total land area, according to the fourteenth Michigan census, it stands first in total number of beef cattle, first in total value of dairy



This Machine Digs Ten Feet Every Minute.

cattle, first in total number of dairy cattle, second in total value of crops, third in the total milk production, third in the total value of all domestic animals, and ninth in total value of land and buildings. It is, however, just beginning to wake up to the fact that the land must be drained before they can realize the most from the labor and money expended. In many cases the drainage pays for itself in one year and never fails to pay for itself in from three to five years, and from there on the proceeds are clear profit.

Where needed the up-to-date farmer can not find a surer investment than drainage. The next few years should see Sanilac county competing with the leader for first place in all branches of agricultural production.



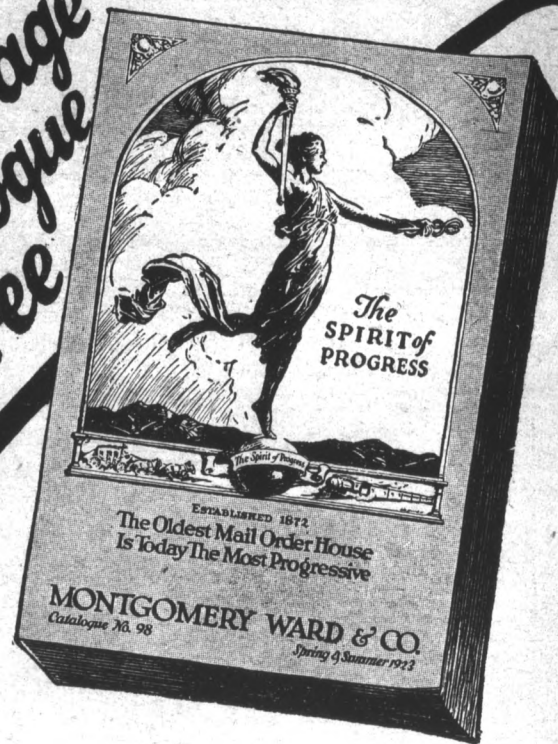
Solid lines — system installed Heavy lines — 6" mains → direction flow
Broken lines — system to be installed Light lines — 4" laterals → change direction

It is the Height of Folly to Attempt to Put in Tile Drains in a Haphazard Way. Above Are the Plans for Draining the Farm of W. W. Frey.

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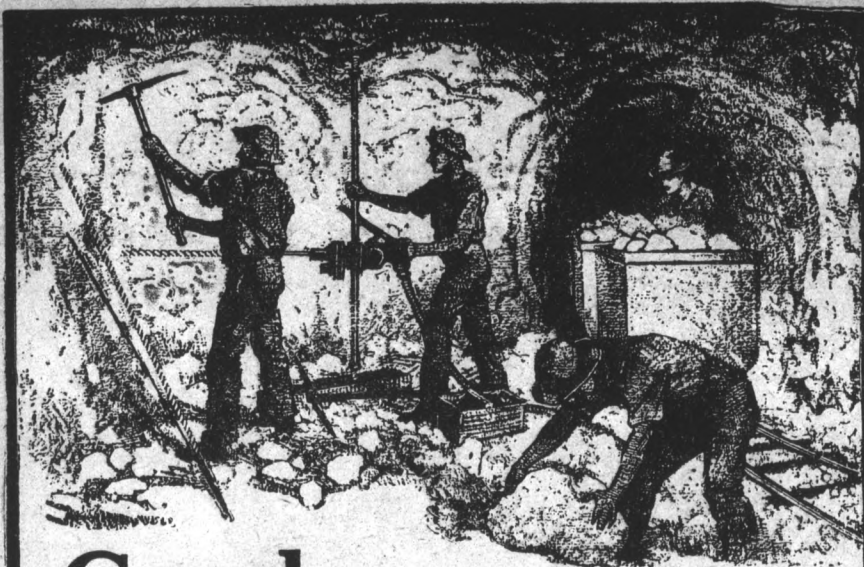
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We have for sale two (2) No. 9 "Clipper" Grain, Seed and Bean Cleaning Machines, manufactured by A. T. Ferrell Company, Saginaw, Michigan; that are in perfect condition, having been used less than ten hours. These machines are complete with two screens, and are listed in Ferrell's catalogue No. 31 at \$150.00—price \$75.00 f. o. b. Chicago or Pittsburgh, shipping weight 900 lbs. Address: Sun-Maid Raisin Growers, 513 Hearst Bldg., Chicago, Ill.

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Capital Comment

By Our Lansing Correspondent

IF the introduction of bills can be considered as an indication of progress, the present legislature has surely exceeded the speed limit. The first nine days have brought forth a grist of 142 bills.

The problems uppermost are the proper distribution of the state funds among her various departments, and new forms of taxation. The committee on "ways and means" have a real task to perform in working out the first problem and are, no doubt, appreciating the Speaker's thoughtfulness in not assigning them work on additional committees. A great deal of interest is being shown, not only at the capitol but throughout the state, in several bills aimed to create additional revenue.

Two of the more prominent bills of this character are backed by Representative C. Jay Towne, chairman of the agricultural committee, one to provide a three mill tax upon all state and municipal bonds, and another known as the "Filled Milk" bill. The former aims to put an end to tax-exempt securities within the state, and the latter would prohibit the traffic in milk in which the butter-fat has been replaced by vegetable oils. Both bills have the support of the federated legislative committee which is made up of sub-committees of the grange, the farmers' club, the farm bureaus and gleaners.

The gasoline tax, so much talked about and recommended by the State

Farm Bureau at its last annual meeting has at last put in its appearance in the form of a bill introduced by Joseph Warner, of Ypsilanti. The returns that this tax would bring into the highway fund of the state are estimated at \$7,000,000 annually. Approximately \$5,000,000 of this fund would go to retiring highway bonds and paying interest thereon. The balance would go to the current highway fund. Most people seem to favor this bill except Detroiters, some of whom think it is "another attempt of the farmers to get the city folks to pay their taxes for them."

Senator Berme L. Case, of Ithaca, would relieve the supervisors of taking the statistical census by repealing the present law. This law provides the most accurate source of state, county and township statistics ever created and the cost of it is exceedingly light. Farmers' organizations generally oppose its repeal.

Representative Palmer, of Detroit, would change the term of office of governor and lieutenant-governor from two years to four years, believing the governor would thus be kept from playing politics in order to secure reelection. Sounds like having to offer a job for tomorrow in order to get a good day's work today.

A state-owned cement factory, manned by prisoners and making cement for state building and highway purposes, is also being considered.

Doings at Washington

By Our Washington Correspondent

GOVERNMENT TO GO INTO FERTILIZER BUSINESS.

THE senate adopted a resolution for the appropriation of \$10,000,000 to purchase nitrate of soda and calcium arsenate to be sold by the government at cost to cotton growers.

Discussion on this resolution has stirred up considerable interest in the proposal of Henry Ford to manufacture fertilizers at Muscle Shoals, Alabama, and thereby free the country from the grip of the Chilean-British nitrate monopoly.

BUILDING AT MUSCLE SHOALS.

THE army appropriation bill as passed by the house provides an appropriation of \$10,000,000 for completion of dam No. 2 at Muscle Shoals. This makes \$25,000,000 appropriated by congress for construction work at Muscle Shoals since the World war ended, \$17,500,000 since Mr. Ford made his offer for Muscle Shoals. These millions are being expended with no guarantee of interest, and no apparent object in view, except to enable the war department to keep Mr. Ford from purchasing or leasing the plant and carrying out his contracts to produce fertilizers.

Sentiment appears to be strong for the acceptance of the Ford offer among farmers in all the states where fertilizers are extensively used.

CAPPER ON RURAL CREDIT.

SENATOR CAPPER said he was for the three rural credit measures now up. "I had a part in framing the two credit measures," he continued. "I was a member of the joint agricultural commission which worked for

some three months on rural credits legislation. I joined with the commission to report what is known as the Lenroot-Anderson bill. I think that is a good measure, and it should be passed. I introduced what has been referred to as the Capper bill, which I do not believe will interfere with the Lenroot bill. I hope to see both bills passed. As a member of the committee on agriculture I voted in the committee to report the Norris bill, and I expect to support it with possibly some slight amendments, because I believe it is a good measure."

Senator Capper said his bill represented what can be accomplished immediately, without controversy, and upon sound and constructive lines. He emphasized the need for rural credits by saying that the farmers were in no better position now than last year.

THE EGG-LAYING CONTEST.

THE Evergreen Poultry Farm with its Wyandottes, still maintains its lead, having a total production of 436 eggs. Next comes the Leghorns belonging to J. A. Hanson, of Corvallis, Oregon, with a total production of 411 eggs. E. E. Shaw's Leghorns have come third with 402 eggs to their credit. W. H. B. Kent's Plymouth Rocks follow closely behind with a production of 401 eggs.

Despite the cold weather the production of the contest birds has made a good increase. Some pens are still moulting heavily, but most of them are getting into good production.

"Better and more harmonious cooperation in producing and marketing of agricultural products is America's greatest need," said Sir Horace Plunkett, of Ireland.

"Just Apples" Lose Money

Showing that It Does Not Pay to Ship Ungraded Stock

By Stanley Johnston,
Supt. South Haven Experiment Station

A FRUIT grower during the past season shipped fifteen bushels of Fall Pippins to Chicago, and upon receiving his returns found that he would have been money ahead to have left nine bushels at home. Usually a person expects that the more fruit they ship the more money they will make, and it seems strange indeed, that a man should lose money because he didn't let nine bushels stay away from the boat dock. Sounds as reasonable as two and two make three.

This grower shipped six bushels of A-Grade and nine bushels of Unclassified, and the problem works out as follows:

Unclassified.	
Selling price per bushel.....	\$0.50
Expenses:	
Basket	.21
Freight	.25
Cartage	.05
Commission	.05
Total	\$.56
Loss	.06

A-Grade.	
Selling price	\$1.00
Expenses:	
Basket	.21
Freight	.25
Cartage	.05
Commission	.10
Total	\$.61
Gain	.39

On the six bushels of A-Grade the grower had a net return of \$2.34.

On the nine bushels of Unclassified the grower had a loss of \$.54.

If this grower had taken the nine bushels of unclassified apples to the cider mill he could have sold them at the rate of thirty cents per hundred weight, or a net return of \$1.35. In selling them to the cider mill he would have had no package to pay for, no labor of packing and none of the expense of selling.

These figures were obtained from S. H. Wilson, of the South Haven Steamship Line. In commenting on them, Mr. Wilson remarked that many people would say, "Oh, well, the Steamship Company should worry, they got their freight, whether the bushel is Unclassified or A-Grade." Mr. Wilson was emphatic in stating that he would much rather see the higher grades of fruit shipped because, as soon as the growers began to realize a loss on their shipments they cut down on the quantity sent over to Chicago. On the other hand, if growers shipped better grades and realized a profit, the shipments kept up in a normal manner.

Occasionally another erroneous idea is expressed in regard to the amount of fruit handled by the commission men. As a rule, the commission men do not care to handle unclassified fruit as their commission is so much smaller on each basket. They would rather handle less baskets of high-grade fruit on a market that kept up than to handle a lot of unclassified apples that would glut the market and cause it to decline or become unsteady.

This little, simple problem in arithmetic should carry more significance than volumes of words in telling us what to do with our unclassified apples. Once in a while some unclassified apples can be sold to a certain trade to advantage, but as a rule they should either be sent to the cider mill or dumped on the ground, which ever method seems to be the best.

RASPBERRY MOSAIC.

MR. W. H. RANKIN, of the Geneva Experiment Station, is the discoverer of the mode of dissemination of raspberry mosaic and its control. In a round-table discussion, Dr. Rankin

says a very minute aphid is the agent of distributing the disease. He doubts, however, if any control measure applied to kill the aphids would be effective. His method of control is removing and destroying the diseased plants, thus destroying the aphids at the same time. Roguing of the plants is done in the time of year in which there is the least spread of the disease. On the Geneva station grounds roguing done early in August results in one test in reducing the amount of mosaic from 4.7 per cent to one-third of one per cent. Another field rogued had twelve per cent in 1921 and one and one-fourth per cent the next season. Another field with thirty-two per cent of mosaic was rogued August 1. The next year it had two and one-fifth per cent. The plants should be removed immediately after being taken out, and burned. They should be carried, not dragged from the field.

Dr. Rankin would wait a year before replanting where the diseased plants have been taken out. He says the source of infection has been nursery stock, and that disease-free stock is the key to the situation.

LOVING-CUP FOR FRUIT PIONEERS.

A LARGE and handsome silver loving-cup has been presented to the Michigan State Horticultural Society as a memorial to the pioneer fruit growers of the state. Among the names inscribed on it as pioneer fruit growers are: Charles W. Garfield, Samuel S. Fuller, Asa W. Slayton and R. D. Graham. This cup will be given a permanent place in the new agricultural building at M. A. C.

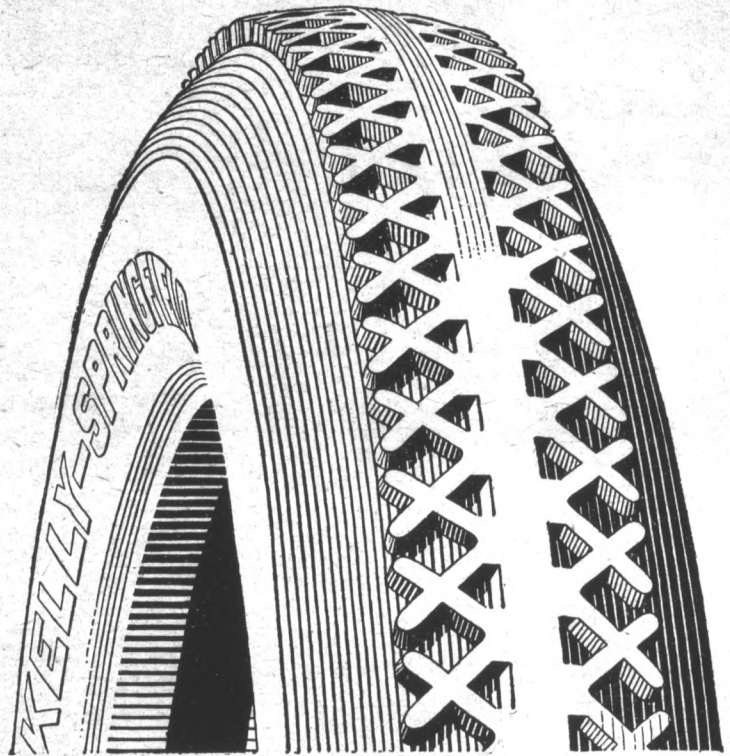
LARGE VEGETABLE SEED CROP.

ACCORDING to data obtained by the United States Department of Agriculture the commercial production of vegetable seed during the past year was much larger than in 1921, and compare favorably with the five-year average. The outstanding increases in production over last year are as follows: Dwarf snap beans, 120 per cent; garden peas, 75 per cent; sweet corn, 100 per cent; garden beets and lettuce, 100 per cent; cabbage, carrots, kale and parsnip, 50 per cent; watermelon, 60 per cent; parsley, radish and tomatoes, 100 per cent; onion seed, 25 per cent; onion sets, 25 per cent, and cucumbers, 15 per cent. This would indicate that it ought not to be hard to get good quality vegetable seeds at a fair price.

CONGRESSIONAL SEED BILL KILLED.

THE bill which has been effective from almost time immemorial and which has been the butt of numerous jokes regarding congressional graft, is the one which permitted the free distribution of garden seeds by congress. At a recent meeting of the senate, Senator Lodge, republican leader, made a point of order against the amendment to the agricultural appropriation bill which would have permitted the distribution of these seeds. This point of order was upheld by a ruling of Vice-President Coolidge. So we will no longer have packages of government seed gracing our mantels, aging in urns or bringing questionable results in our garden patch. And incidentally the government saves \$360,000, which is no small matter even for a government to save in these days when economy is necessary.

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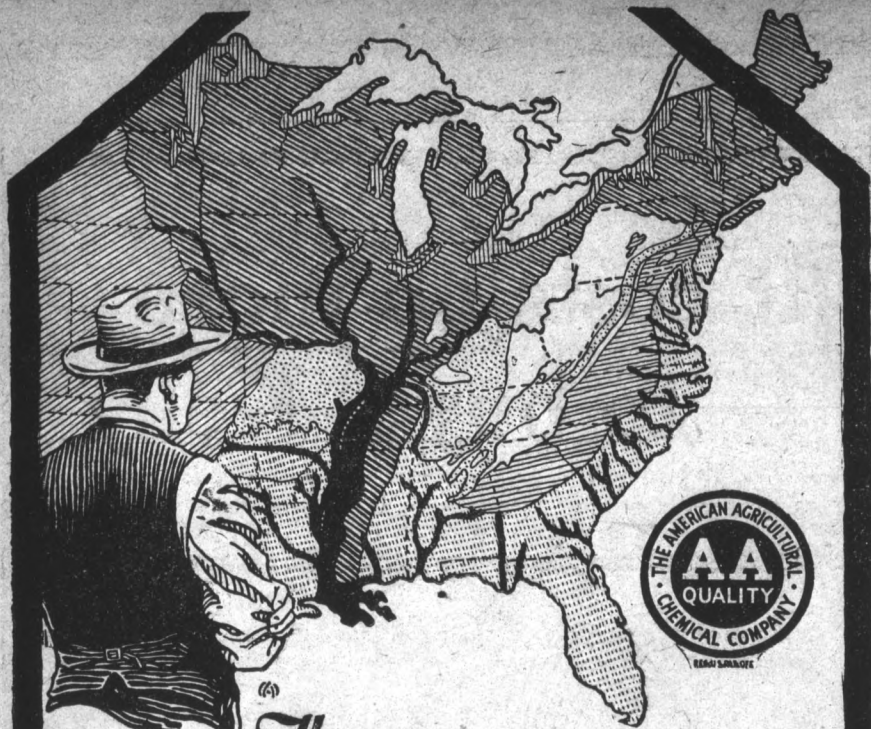
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POTATOES FOR CALVES.

Are potatoes a good winter feed for calves seven to eight months old? If oats are fed should they be ground?—F. F.

Potatoes are a good succulent food when fed raw to cattle, sheep, horses or poultry. If fed to hogs they should be cooked. But only a moderate amount should be fed. It would not do to try and make potatoes half the ration for calves or other stock. They contain too much water for that. They should be fed in moderate amounts in connection with the hay and grain. It would probably not be advisable to feed more than ten pounds per day to each calf.

It always pays to grind oats for the calves or cattle. If fed whole, some of them will not be thoroughly digested. It is not necessary, nor is it advisable to grind oats for horses with good sound teeth. They can grind them themselves. But it is different with cattle.

SUBROGATION.

Two parcels of land in different sections owned by one man were mortgaged. Later all was sold and later sold to two different men. Later the owner of one place failed to pay the interest and the whole mortgage was sold. When it is redeemed, will both parcels fall to one man if only one pays the amount due on the mortgage?—D. H.

The owner of property who pays a debt another should pay, in order to save his own property is put into the shoes of the creditor to recover the amount of the debtor. A better way would be to allow the property to proceed to foreclosure and buy at the sale; by which means the owner of the one parcel gets title to both unless the other party will pay his share to redeem. There is another doctrine involved in these facts. If the owner of two parcels covered by one mortgage sells one of them, promising clear title, and later sells the other; when the matter comes up between the buyers of the two parcels, the parcel last sold is bound to pay the whole mortgage.—Rood.

LICENSE FOR SELLING.

Does any one have to pay license for selling one product? I am selling milk and have to pay both a state and village license. Can the village stop me if I don't pay the license? Can the village make a law to make us pay a license for selling milk?—O. M.

There is no doubt of the power of cities to regulate by ordinance or license any matter that is necessary to protect the public health or safety of its citizens, and in this class may be included the sale of food.—Rood.

TENANT AGREEMENT.

I have hired a man to work on my farm. I give him house and wood, and do not know what else they are entitled to. I pay him a monthly salary. Please tell me what usually goes with this arrangement.—E. G.

Usually the house and a small garden spot are furnished. Under special conditions other things are added as you have added too. On dairy farms, for example, a small amount of milk daily. When such additions occur they offset a certain amount of salary or wage or special qualifications of the hired man.

Below are some wage figures recently issued by the United States Department of Agriculture, and giving the average wage paid to farm hands in the north central states east of the

Mississippi, in which group Michigan is situated. And while they do not include men to whom houses are furnished, they will form a basis of comparison.

In 1921 wages by the month, with board, averaged \$34.98 per month; without board, \$48.84. In 1922 the monthly wage, with board, was \$33.92; without board, \$47.02. By the day, wages with board in 1921 were \$2.04; without board, \$2.61. In 1922 the average was \$1.95 with board, and \$2.54 without board.—Eliot.

DRAINING WATER ON NEIGHBOR'S LAND.

There was a tile ditch put in and accepted by our drain commissioner. Now my neighbor has dug a ditch from two to eight feet deep along the road to get the water off his land and put it over me, because he said it can't get in the catch basin fast enough and run through the tile. It hurts my crops. He has two catch basins on his farm, the same as I. And I have no other outlet only through the tile. Can he ditch this water away from his catch basins, and put it over on me because my land is a little lower than his?—C. S.

The making of such a ditch and conveying of water which does not naturally flow upon the adjoining premises is a violation of the rights of the adjoining property owner and the conveying of water in this way which results in a damage makes the property owner liable therefore, and the property owner who suffers the damage may bring an action against the property owner constructing the ditch for such damage as may result therefrom which action may be repeated each and every time that surface water flows through this ditch resulting in damage to adjoining property owner.—H. H. Partlow.

LESSEE OF VENDEE.

A sells his farm to B on a land contract. B lets his land to C on shares. B lets the land go back to A. Can A hold C's share of the grain that was sowed?—W. E. S.

The tenant's title is no better than his lessor's; and on failure of the buyer to keep up his payments, the seller may oust him and all holding under him.—Rood.

HOLD UP MILK.

I am milking seven cows, nearly all fresh, and out of the seven, five of them hold their milk until they are very disagreeable to milk. Have been unable to learn either the cause, or a cure.—C. L. R.

It is something unusual to have five cows out of seven hold up their milk. There must be something wrong in the way they are milked or being cared for. Occasionally there is a cow, from some reason not discernible, that will hold her milk when one first begins to milk, in spite of all the best cow men can do. But for a such a large per cent of them to get this habit is hardly to be attributed to the cows, though, of course, this might be the cause. Where one has a cow that persists in this habit, the best plan is to get rid of her as soon as possible without too much sacrifice.

Ordinarily cows like to be milked. Heavy milkers especially. Drawing the milk seems a relief to them. If cows are well cared for, kept in a warm, well-lighted stable, treated kindly, and well-fed, they seem to be glad to be milked.

If you have been feeding your cows after milking, it would be well to try feeding just before milking.

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Quality of Michigan Potatoes

(Continued from page 99).

Mr. Joe Salmon, purchasing agent for Fisher Brothers' Company, who have 120 chain stores in and about Cleveland, purchases practically all of the potatoes used by this firm from Michigan. He stated that "the chief objection to Michigan stock was its appearance, it being dark in color." He also stated that "the consumer puts quality first and the price second." But the city consumer buys on market quality rather than on eating quality."

It seemed to be the opinion of many dealers that Michigan potatoes had the eating quality, but not the market quality, and that the Russet Rural was of particularly good eating quality. This preference for appearance was brought out by copies of telegrams at the office of K. B. Pocock, a large broker on the Cleveland market. Quotations had been secured from Michigan and New York shippers for a party

best as a rule, although there was an occasional car of poor potatoes even among these. Early in the season field frost caused a lot of trouble but that had practically disappeared. Toledo seems to be well satisfied with the eating quality of Michigan potatoes. Samples examined in the warehouse would indicate that they had been more fortunate than some of their Cleveland brothers.

Detroit Market.

The Detroit market is supplied very largely by the farmers' market and by trucks bringing potatoes from the surrounding counties, principally Oakland, Lapeer and Tuscola. In 1920-1921 Detroit used 2,593 cars of potatoes, 1,226 of these coming from Michigan. Examination of stock on the farmers' market showed them to be field-run and generally of very poor market quality, occasionally some would be found which had enjoyed better care in growing and handling.

In these instances the growers had used Certified Russet Rural seed and as a result the appearance and market quality was 100 per cent better than any others on the market. Of the three markets visited the Detroit market showed the poorest general run of potato stock.

This investigation would lead us to believe that Michigan producers must of necessity have a better grading system if they are to obtain the best price especially when in competition with other states where superior grading has been established. The distinction is well defined, between market and eating quality, although the eating quality of the potatoes produced from diseased stock of the same variety is pretty apt to be inferior to that of stock produced from certified seed comparatively free from disease. Many of the problems connected with market quality are due to disease. Many of the ill-shaped, peanut-shaped, pointed tubers are undoubtedly produced from diseased seed potatoes.

Michigan Farmers Taking the Hint.

The use of better seed for the production of table stock potatoes would unquestionably raise the standard of the market quality. The benefit would come to the producer also in the greater net returns. The 1,585 farmers testing 64,168 bushels of certified seed in Michigan last season found that an average increase of forty-one bushels per acre was obtained from the use of certified seed over that of their own home-grown seed. This increase of forty-one bushels per acre does not represent the only gain. The general run of the crop was better. There were not so many small and misshapen tubers, and a greater per cent of the whole crop was of market grade.

If Michigan farmers are shipping twenty-five per cent of their potatoes which should be consumed on the farm, think of the expense of freight and handling charges brought against them. In this case the producer pays for the extra cartage and other handling charges beside losing the use of the cull or small potatoes as stock food or as fertilizer.

Idaho an Example of Market Grading.

Idaho potatoes were bringing \$2.25 per sack delivered in Cleveland. They are prepared in two grades, "Bakers" for hotel and restaurant use, and "Home Use" for the housewife. The market quality was practically the same for both grades except that the bakers were larger and more uniform. However, Idaho producers by very careful grading can overcome the excessive freight rate and compete successfully with Michigan on her own markets. The report of the bureau of markets up to December 22, 1922, showed Idaho shipping 6,286 cars, as

Helps in the Home

FARMER JACK and Farmer Bill take a hint from my old quill; if success is to be your goal don't forget the women's sole. Save those soles from so much soil, keep their hands from too much toil; take account of the farm wife's fate, and begin before it is too late, to relieve her of much stress, certainly keep her from distress.

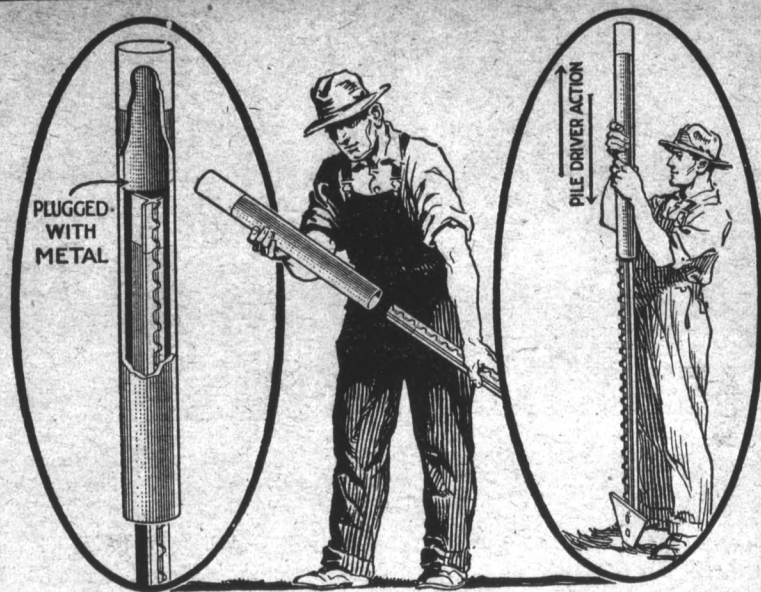
To tell other Jacks and Bills through the medium of your quills, what can be done about the home to give its keeper time to roam, is my appeal to you today as I pen this little lay. Tell us in your own sweet way, what is in your hearts to say on how to ease the good wife's work. On this matter do not shirk, for to the five who write us best (can't say what may happen to the rest) I shall give one pair of pliers that will gladden the heart of sires. "Help for women" is this week's cry, so do not let this chance go by, but get your quill and write me straight for February second will be too late.—The Handy Man.

at Akron, Ohio, who wanted a car of potatoes. Pocock telephoned the Akron dealer and quoted Michigan's potatoes at \$1.40 per 150-pound sack, and New York's at \$1.95 per 150-pound sack. The dealer took the New York potatoes. Why? As stated by the broker's representative, New York stock on the whole is more dependable. The pack is uniform, clean and of good market quality. Trouble with rejections seldom occur and the retailers are willing to pay the extra price of fifty-five cents per 150-pound sack rather than take the risk of getting stock from Michigan that will disappoint their trade.

Greenville and Cadillac furnish most of the potatoes for Cleveland. The only dependable stock now coming out of Michigan is in the Chief Petoskey branded sacks shipped by the Michigan Potato Growers' Exchange. This brand brings a premium of ten to fifteen cents per sack more than any other potatoes from Michigan.

Toledo Market.

The Toledo market is supplied principally from Michigan during the season for late potatoes. The Russet Rural being as well accepted by the trade as the White Rural. One firm handling four or five hundred cars of Michigan potatoes a year stated that the quality was fair to good this year and that the Chief Petoskey was the



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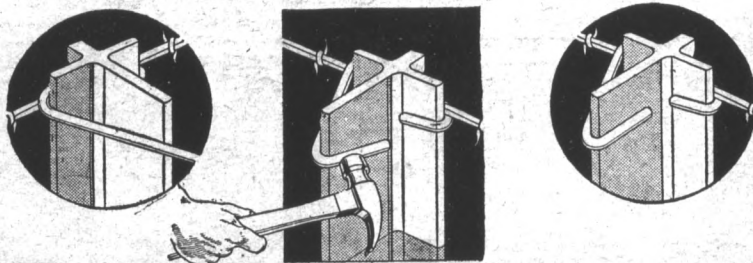
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These exclusive labor saving features coupled with the outstanding features of RED TOP Studded Tees give the farmer the most value for his post money. The RED TOP Studded Tee is a stronger post—it doesn't contain a single hole or rivet. The sturdy anchor plate insures a firm setting. The aluminum metallic finish looks better, lasts longer. In every respect good for many years of service.

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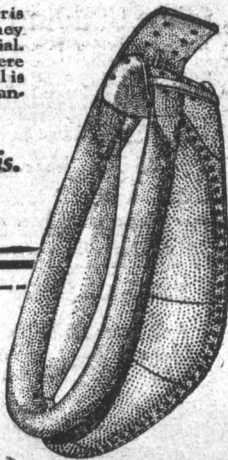
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daily shipments since that time are very nearly the same for both states. Idaho growers out of necessity have to grade or their shipments wouldn't pay the freight. As it is, Idaho potatoes were being sold by the market men for \$3.00 per 150-pound sack, and many of the more fancy grocers were repacking them and getting a fancy price of \$2.50 per box of fifty pounds. It is evident by the market report that the grower in Idaho is getting little for his potatoes, but still he is holding even with the Michigan producer and paying three times as much freight.

The Farmer's Problem.

Consider the situation as it stands today with freight rates practically the same from Cadillac or Greenville, New York to Cleveland. There is a difference of sixty cents per 150-pound sack in favor of the New York producer. The difference caused by the extra cost in freight and cartage or the twenty-five per cent of culls found in Michigan stock accounts for the forty cents difference in 150-pound sack. The remaining twenty cents must be the premium that the buying public is willing to pay for a standard grade of uniform pack and of known

quality. "Quality Sells" but it has to be consistent.

During years of over-production of potatoes the demand for human consumption seldom absorbs the entire crop. At such times the profitable use of surplus potatoes as a live stock food becomes a vital question. The value of potatoes as stock feed will depend upon the comparative value of grains. On this basis potatoes would be worth at least twenty cents a bushel for any live stock feed and at the present price of fertilizers each bushel of potatoes contains seven and one-half cents worth of nitrogen, phosphorus and potash.

Our Responsibility.

The above evidence shows this to be a marketing problem based almost entirely upon better production methods. Involving the use of better seed, care of the crop and more careful grading in the field, and handling operations in the warehouse.

In order to acquire further information representatives of the farm crops department of the Michigan Agricultural College will continue to make systematic observations on the markets where Michigan potatoes are sold.

Opinions & Comments

From
Michigan Farmer Readers

DISTRICT VS. CONSOLIDATED SCHOOLS.

AN article with above title appeared in this paper, some time ago. The writer of said article took issue with those "who persist in asserting that the rural child is far better educated than the child who attends the consolidated, or city, school. We beg to say that not only are they right in their assertion, but the school work in district is done in a school year of nine months instead of ten months.

After 1924, when every teacher must have a life certificate from the State Normal, or some other equally accredited institution, then if all the added knowledge and training are so helpful as we trust it will be, our district schools will make a still better showing, although we confess to being well satisfied with the comparative showing made now.

A superintendent of schools with many years' experience said the best students in his high school came from the surrounding district schools.

For proof of our claims for the district school, one has only to look among the leading business men of our cities and read in the best magazines of the day, how men at the head of great enterprises, grew to fill the places they occupy. Take President Harding and his cabinet of "best minds" of the country. The vice-president, Calvin Coolidge, was born on a farm in New Hampshire and 'tis said, that when he goes back to the old home where his parents still live, he puts on old-time clothes and goes out to help with the milking. Of the secretaries in the cabinet, fully one-half spent their youth on the farm, and it is fair to assume, attended the common district school.

The writer of said article seems to lament that Michigan is behind some other states, Ohio for one. Pennsylvania should have been included in his list, as an expert on consolidating went there to work some time ago.

In an issue of the Michigan Farmer dated November 25, is an editorial entitled, "Indicating Michigan's Popularity." "In a report on migration we find that Ohio and Pennsylvania had eighty per cent of the number of people who came in the state, go out of

it." "Michigan, however, had only one-third of the number leave the state that came into it to make a home. Michigan also made the highest proportional gain in population of any of the leading states of the Union."

Among the factors which make her a favored state, we think might well be included her present school system. Next to the bread and butter problem, a man with a family will think of schools and churches, especially the former.

That our district schools may and should be improved, there is no doubt, and the first step in that direction for many counties, is to elect a new school commissioner whose qualifications shall be at least as high as the teachers over whom he is placed. After 1924 every teacher must hold a life certificate, as already noted. The terms of county school commissioner is four years.

Men elected to that office this spring should be up-to-date in qualifications and training, and with right ideals of the work before them.

A few years ago the Germans were coming over here to eat us up, figuratively speaking, and they would have done it, too, if we had not roused ourselves to action. And this highly Prussianized system of education will be forced on us unless we awake to the situation before it is too late.

This year the primary comes March 7. All nominating petitions must be returned at least twenty-one days before the primary, preferably sooner, to the county clerk of whom the blank forms are to be had. All names on the petition must give place of residence and date of signing. For further information send to the secretary of state, Lansing, Michigan, for copies of school laws and election laws, especially primary election laws. Also to the state superintendent of public instruction, Lansing, Michigan, for his annual report. All these are free and were printed for your use. Send for these and study them. Now, as ever, "Knowledge is Power."

The primary is really the deciding factor and this is the time for best efforts. As you value your home schools look carefully around for the best candidate available for the very important position of county school commissioner, and then get busy.—
K. E. C.

MILKING EXPERIENCES.

MILKING should be done regularly, that is, at regular hours each day. The majority of dairymen milk twice daily, morning and evening. On farms where dairying is carried on in conjunction with other farm work, milking is generally done between five and six in the morning and about the same hours at night. I find these hours best suited on my farm where dairying is a part of the general farm work. However, if it is more convenient to milk at other hours, system and regularity should be practiced.

The first step in milking cows is to get ready. The stable should be clean and free from odor and dust. Loose particles of dirt should be carefully brushed from the udder and flanks with a clean dry cloth. It has been my experience that cows properly stabled will seldom have their udders and rear parts soiled, and washing is not necessary unless strictly high quality of milk is being produced.

Quietness about the stable at milking time is essential in getting all the milk and butter-fat cows will produce. Loud talking, abusive language will cut production. The process of giving down milk is largely controlled by the nervous system and any local excite-



Here is Mr. Lumley, of Charlevoix County, who Believes in Thorough Cultivation as one of the Requisites in Growing Potatoes of Quality.

ment during milking is apt to affect the milk yield. While milking at Forest Grove Farm we talk in a normal tone of voice and work among the cows in a gentle way.

No two milkers milk just alike, therefore, the same milker should milk the same cows regularly. Cows are creatures of habit and quickly notice any change in management. Fast milking is more acceptable to the cow than slow milking. If a cow takes kindly to the milker and the milking is done in a business-like manner the milk secreting system will develop to maximum milking capacity.

Milking cows dry is essential. When milk is left in the udder after each milking, the glands will gradually slow up on secreting milk and ultimately the cow will dry up. I find that it pays to spend a few extra minutes stripping the udder to make certain that all the milk has been extracted.

When milking I milk the front two quarters first, extracting about half the amount, then milk the rear quarters in the same manner. I do not know as this has any particular influence upon milk production, but I do know that the cow milks much better and gives down her milk more freely. Part of the year I use a milking machine. The machine is very satisfactory.—Leo C. Reynolds.



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Louden Steel Stalls and Stanchions have no sharp corners to hurt the cows, no crevices to harbor dangerous disease germs, no flat surfaces to collect dirt, no troublesome attachments. Smooth, graceful, tubular steel construction that will last as long as the barn stands.

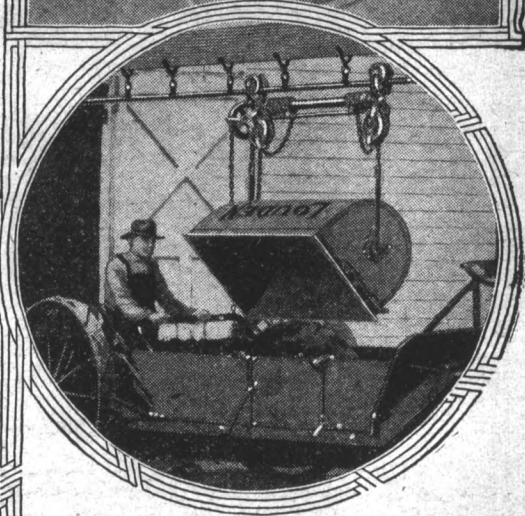
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Program for Farmers' Week

The Interest of Every Class of Farmers Was Considered in Arranging this Year's Program. It Starts Monday.

ALTHOUGH the array of speakers who will address the farmers of Michigan at the annual round-up at M. A. C., January 29 to February 2, includes some of the most famous agricultural leaders of the United States, probably no address will be of greater significance than two to be given by President Friday of M. A. C.

The first of these is scheduled for 8:15 on Monday evening, January 29, when his subject will be, "A Policy for the Agriculture of State and Nation." In the other address, to be given at 3:45 on the afternoon of Thursday, February 1, he will discuss "A Culture for the Rural Community."

The complete program for Farmers' Week, just announced, gives promise of equaling, and possibly eclipsing, those of recent years, which have attracted increasingly large groups of farmers each winter. All agricultural interests of the state will be centered at East Lansing for the week, and the attention of the agricultural world will be directed toward the discussions held at the M. A. C. Round-up.

Motion pictures will open the first general session in the gymnasium at 6:30 Monday evening, January 29. Robert S. Shaw, director of the experiment station, and dean of agriculture at M. A. C., will follow with an address, "College and Experiment Station Work," and President Friday will utilize the remainder of the evening with his discussion of a state and national policy for agriculture.

On Tuesday afternoon Charles Snyder, editor of the Chicago Daily Drivers' Journal, will speak on "Some Economic Phases of the Live Stock Industry;" W. A. Cochel, western representative of the American Shorthorn Breeders' Association, with headquarters at Kansas City, will deliver an address on "The Live Stock Situation," and Dr. W. J. Kiernan, of the bureau of animal industry at Washington, will discuss some of the work of his department. Tuesday evening will be given over to an athletic entertainment, which will include boxing and wrestling and a basket ball game between M. A. C. and Chicago Y. M. C. A. College.

"Prices of Farm Products and Probable Future Prices" will be the subject of the first address Wednesday afternoon by Dr. G. F. Warren, professor of agricultural economics at Cornell University. He will be followed by Donald Conn, transportation expert and member of the committee of agricultural inquiry at Washington, who will take up "Transportation Problems." In the evening more motion pictures will be shown and addresses will be given by Mrs. W. R. Alvord, of Detroit, formerly president of the State Federation of Women's Clubs, and Dr. Eugene Davenport, of Woodland, formerly dean of agriculture and vice-president of the University of Illinois. Dr. Davenport will discuss "The Necessary Conditions for a Permanent Agriculture."

During the early part of the afternoon of Thursday the annual "M. A. C. Parade" will be held on the campus. In this feature every phase of college will be represented. Signora Olivia Agresti, of Rome, Italy, will be the first speaker of the program in the gymnasium, her subject being "The International Institute of Agriculture." President Friday's second address on rural community life will follow. Sydney Anderson, Minnesota congressman, who has been one of the leading figures of the agricultural bloc, will be the only speaker Thursday evening. The last general program will take

place Friday forenoon, when Dr. Davenport, James Schermerhorn, Detroit newspaper editor, and James L. Feiser, manager of the American Red Cross, with headquarters at Washington, will give addresses. Friday afternoon the programs of the Housewives' Congress and the Michigan Press Association will be continued and the Shorthorn Breeders' Association will hold an auction sale of live stock.

Nearly thirty state farm organizations will utilize the forenoons during the week for their annual sessions. The Housewives' Congress will continue from Tuesday to Friday. The Michigan State Farm Bureau will hold its annual meeting Thursday and Friday. On Wednesday and Thursday the Michigan Crop Improvement Association will meet. The program for the Michigan Improved Live Stock Breeders' and Feeders' Association will be merged with the general program in the gymnasium on Tuesday, and the seventeen allied bodies will meet on succeeding days.

Other annual meetings are scheduled as follows: Michigan Potato Producers' Association, Thursday and Friday; Michigan Soils Association, Wednesday and Thursday; Michigan Muck Farmers' Association, Tuesday and Wednesday; Michigan Beekeepers' Association, Tuesday and Wednesday; Michigan Branch of the American Poultry Association, Wednesday, Thursday and Friday; Michigan Press Association, Thursday, Friday and Saturday; County Agricultural Agents' Conference, Monday; County Club Leaders' Conference, Monday and Tuesday; County Y. M. C. A. Conference, Wednesday, Thursday and Friday; High School Boys' Contests, Thursday; County Red Cross Chairmen Conference, Friday.

Special rates for Farmers' Week visitors have been granted by all steam and electric railroads in Michigan. Round-trip tickets may be had for one and one-half times the regular one-way fare from any point in the state to East Lansing.

Rooms will be available in East Lansing and Lansing homes, as well as in Lansing hotels. Reservations for rooms in private houses may be made in advance, at a cost of \$1.00 per night per person, by communicating with Mrs. E. M. McElroy at the People's church, East Lansing. Besides the restaurants of Lansing and East Lansing, special eating facilities will be provided at the Women's Building and at the Dairy Building. On arrival, visitors will register at a booth to be maintained in the street car waiting room at the entrance to the campus.—Henshaw.

SEEK APHIS CONTROL.

THE entomologists and vegetable canners of Michigan and Wisconsin will cooperate during the coming year against the pea aphid which did untold damage during the past season.

Considerable work was done around Grand Rapids last year by the W. R. Roach Canning Co. Various spraying and dusting experiments were tried with fair success. During the coming year this work will be continued and in addition the special study will be made of the natural enemies of this aphid. This bug is a close relative of the aphid which attacks rose bushes and sweet peas. Under favorable conditions, it almost ruins the season's pea crop.

Our best argument that orderliness and neatness does pay, is that it works out that way.

INCREASES PROFITS BY FEEDING MORE SILAGE.

RECENTLY a dairy extension specialist found a dairyman feeding only twenty-two pounds of silage daily. This man had never weighed his silage but thought he was feeding thirty pounds daily. The extension worker proved to this man's satisfaction that more silage should be fed to his cows. The dairyman agreed to increase the amount of silage for his ten cows. Within ten days he had them eating thirty-two pounds daily.

The ten cows made a total increase of fifty pounds of milk per day. This milk was sold at \$3.00 a hundred pounds, making a total increase of \$45 per month from the change in feeding. The increased amount of silage consumed amounted to 100 pounds per day, or one and one-half tons for thirty days. At \$5.00 a ton this silage would be valued at \$7.50. It gave an increased income of \$37.50 per month. What is a ton of silage worth?

HOLDS SUCCESSFUL GRAIN AND POTATO SHOW.

A REAL success was the third annual Grain and Potato Show of St. Joseph county, held at Centerville, Michigan, where over two hundred exhibits were shown.

Classes were arranged for yellow, white, and white cap dent corn, oats, wheat, rye, barley, potatoes, cowpeas, soybeans, buckwheat and popcorn. Prizes amounting to \$275 were contributed by the county farm bureau, banks, business men, and the publishers of several newspapers and farm publications. The county was divided into four sections of four townships each and prizes offered in each section, to insure the distribution of the prizes over the county. The sectional winners then competed for the county championships. There was also a sweepstakes prize in corn for the county, all varieties competing, and an open class for corn open to the whole state.

The ten-ear exhibit of yellow dent corn shown by P. I. Marvine, of Mendon, won first in his section and first in the county in the yellow dent class, sweepstakes over all varieties in the county, and first in the open class. County champion white dent was shown by Wm. F. Wahl & Sons, of Centerville, and county champion white cap by Marshall Stowell, of Colon. In the open class, any variety, P. I. Mervine was first; Wm. F. Wahl & Sons, white dent, second; Wahl & Sons, yellow dent, third; D. E. Turner, Mosherville, Hillsdale county, yellow dent fourth; Charles Wadsworth, of Centerville, yellow dent, fifth, and William Folks, of Hanover, Jackson county, white cap dent, sixth. John Fletcher, of Centerville, had the first prize single ear, a yellow dent. Other county championships were won by Jones Munson, of Constantine, on potatoes; Omer Goodrich, of Centerville, oats; John Bohm, of Centerville, on wheat; Wahl & Sons, Centerville, rye; Ellsworth Tobin, of Three Rivers, soybeans; Ellsworth Tobin, cowpeas; H. B. Wilson, of Sturgis, buckwheat; S. C. Kline, of Leonidas, barley, and Merrill B. Rice, of Sturgis, popcorn.

A high school students' judging contest was held in connection with the show, the Centerville High winning first; Sturgis, second; Three Rivers, third, and Mendon, fourth. Highest individual judging honors were won by Leonard Meyer, of Centerville; Omer Goodrich, of Centerville, second, and Edward Goodell, of Sturgis, third. Mr. R. J. Duncan, of the crops department of the Michigan Agricultural College acted as judge of the show.—L. R. Binding, County Agent.

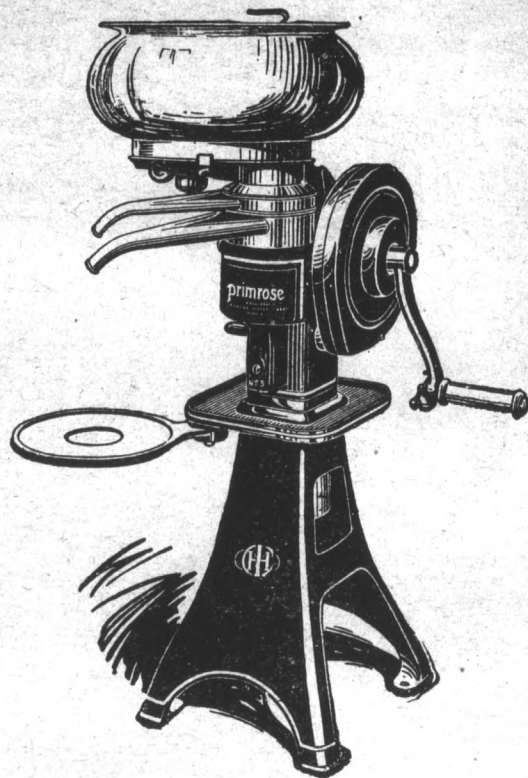
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*The Only
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The winter winds may blow, but the well-cared-for dairy herd produces valuable butter-fat from one year's end to the other. And the checks you get from this butter-fat come in mighty handy every week.

McCormick-Deering [BALL-BEARING] Primrose Cream Separators

are found on many farms, helping the owners get all of the cream out of the milk, and in good condition to bring the top market price. If you are not familiar with the Primrose, you ought to go to the store of the McCormick-Deering dealer and see the one he has on his floor. It is the highest development in cream separator construction. For years the Primrose has been known to excel others in efficiency, durability, close-skimming, light-running, and long life. And the added feature of ball bearings now places it one more step ahead.



Ask for a Demonstration

You want to know more about how to get the most out of your year 'round cream check 'harvest'—why not ask the McCormick-Deering dealer to demonstrate the Primrose to you? He will do it, and it won't obligate you either.

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Make your home bright and cheerful and SAVE ONE-HALF on oil. Tests by Government and leading Universities prove this wonderful new Aladdin is nearly five times as efficient as the best round wick flame lamps. BURNS 50 HOURS on ONE GALLON common kerosene. No odor, smoke or noise; no pumping up; easy to operate; won't explode. Won GOLD MEDAL. Guaranteed.



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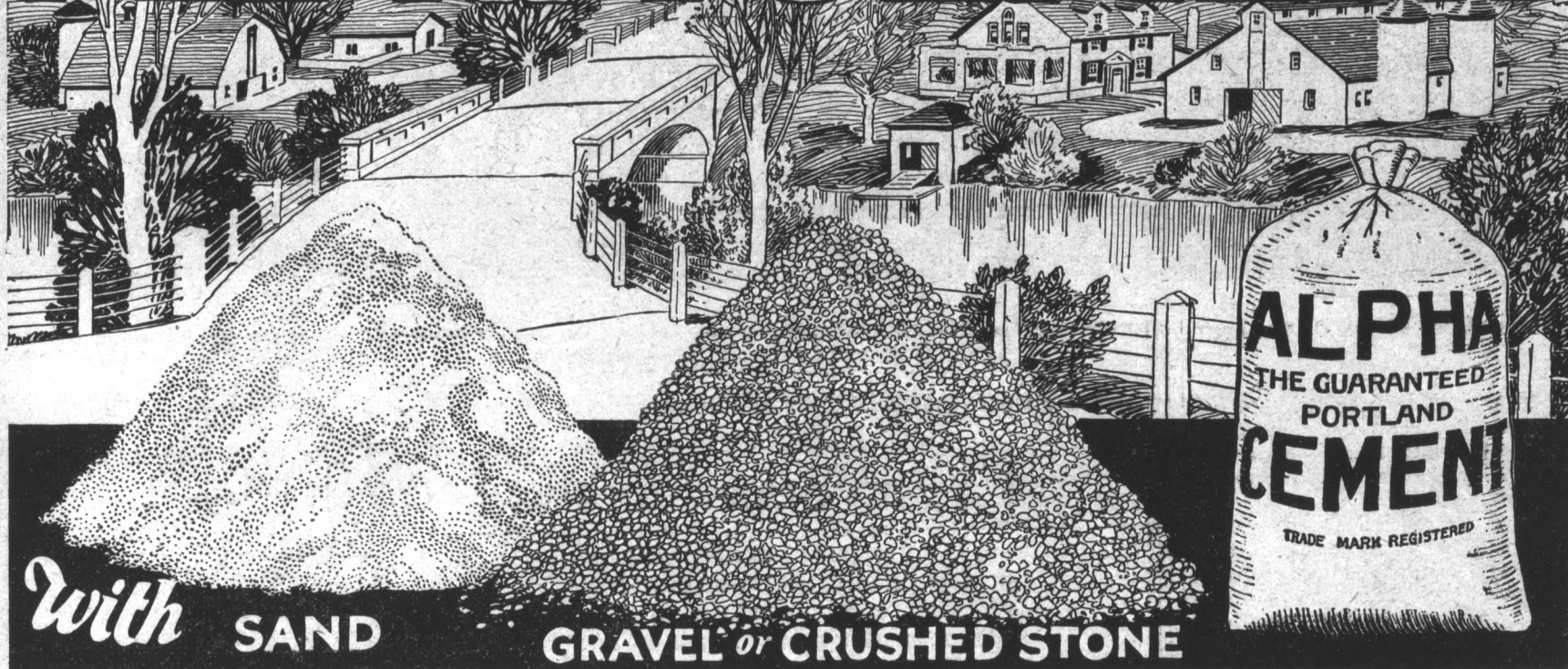
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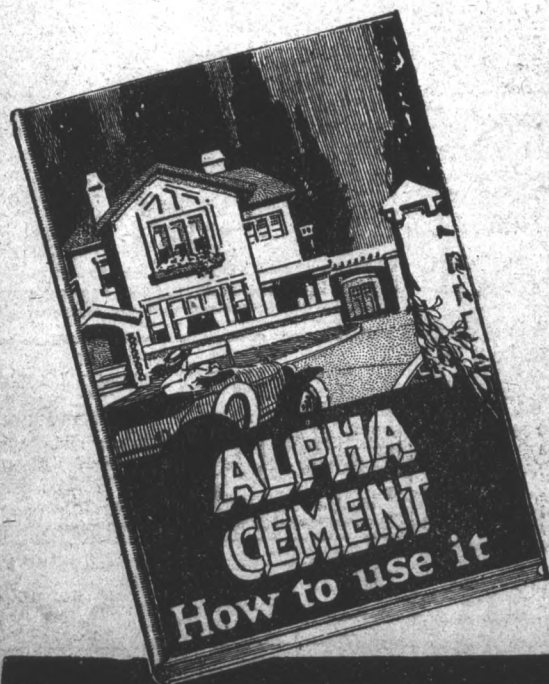
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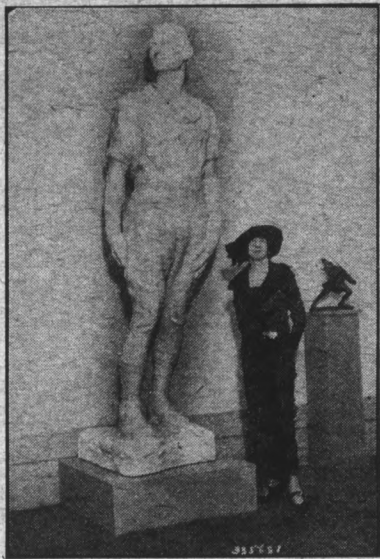
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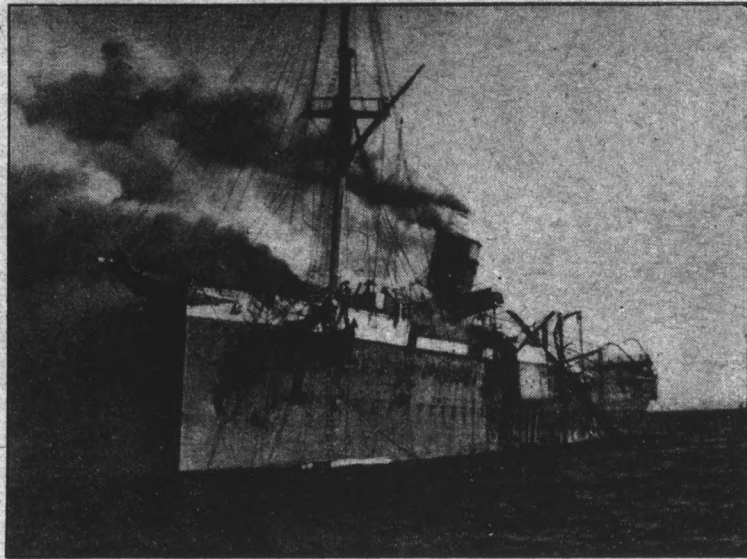
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WORLD EVENTS IN PICTURES



The latest work of Mrs. Harry Payne Whitney is the model for the Fourth Division memorial.



The timely arrival of the U. S. Destroyer "Bainbridge," saved the lives of patients and crew of the French army hospital transport Vinh-Long when it caught fire at sea.



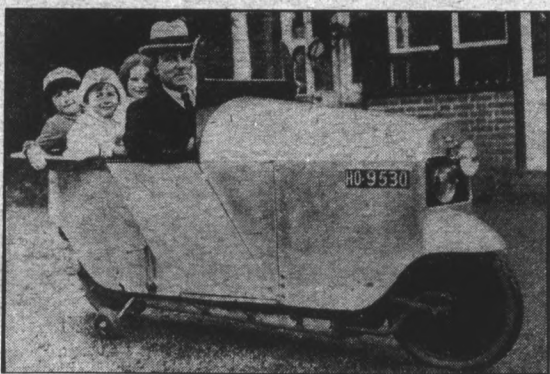
"Miss Nashville" won the silver loving cup as second prize in Atlantic City beauty contest.



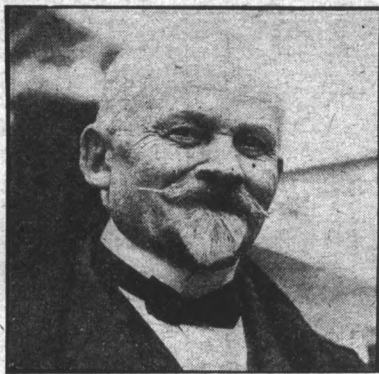
All the members of the army of occupation "chipped in" and purchased food, clothing and toys for the needy German kids in the Rhine valley who will remember them as giver not as conqueror.



Trap-shooting is one of society's favorite diversions at Pinehurst, North Carolina, and this represents a row of the gentler sex well skilled in the art.



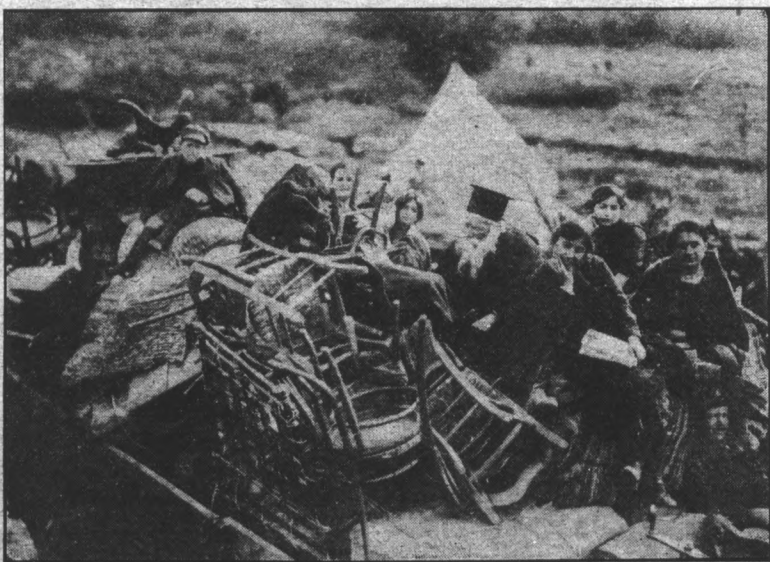
This midget car is big enough to hold the family and small enough to go through a door or be parked on the back porch.



M. Emile Coue, of France, is here to give Americans his message of healing by auto-suggestion.



Champion ski jumper of Canada, E. O. Sundberg, with his two-year-old daughter Elsie, who is the youngest skier in the world.



A Greek Orthodox priest and his family with their household effects loaded into a freight car preparing to flee from Thrace in advance of the Turkish march.



The General Motors office building, located at Detroit, is the largest of its kind in the world and is designed to afford maximum light and air. There are 7 1/4 acres of glass in the big building.



Nerves of Steel—

THE successful man of today is clear-headed, self-reliant. His keen eye and steady hand result from abundant, self-controlled energy, and steady nerves.

Such a man can overcome difficulties because he is physically fit. Foolish habits of food and drink have no place in his scheme of things. When he finds that coffee disagrees he promptly changes to healthful Postum.

This pure cereal beverage is not only free from the health-disturbing drug element in coffee, but there's comfort and satisfaction in its delicious, full-bodied flavor.

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Your grocer sells Postum in two forms: Instant Postum (in tins) prepared instantly in the cup by the addition of boiling water. Postum Cereal (in packages) for those who prefer to make the drink while the meal is being prepared; made by boiling fully 20 minutes.

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The Poor Rich Man

Our Weekly Sermon—By N. A. McCune

A FEW years ago there appeared a striking cartoon in one of the Chicago papers. On the street corner stood a group of urchins. One had a sled, and one had a scrub dog, and all were deliciously covered with dirt and snow. Presently around the corner swept a limousine, with one occupant besides the uniformed chauffeur, and that was a little girl. She was dressed in furs, and was being taken out for her daily ride in lonely grandeur. She was leaning out of the window, enviously watching the happy group on the corner. Under the cartoon it said, "The poor little rich girl." It was so with the man in this parable. He was so rich that he was poor, and didn't know it.

This is one of the most powerful parables ever uttered by our Lord. It is not as famous



as the one on the prodigal son, or the one on the good Samaritan, but it is piercing, in its power. One reason that it is not more quoted is, that it makes many folks rather uncomfortable. It is not pleasant to have hell pic-

tured in such remorseless vividness. There is much teaching on wealth, in the New Testament, and it would not be a bad thing if it were studied more. The commissioner of education of the United States is urging the construction of 250,000 new class rooms which would cost three billion dollars. This seems like a colossal sum, yet it is only one-seventh of the amount spent in 1920 for luxuries, namely, twenty-two billions. The United States can stand a whole lot of preaching on the use of wealth. And when we also recollect the want which exists at our doors—an average of ten millions of people constantly at the poverty line—the parable of the Dives is by no means out of date.

eternity for its background. As for art, we know that many of the masterpieces have religious subjects. Much of the greatest music is built upon subjects from the Bible.

WHEN Christ describes the deaths of these two men, Dives and Lazarus, the rich man and the sick beggar, he does so with one short sweep of his brush: "And it came to pass, that the beggar died, and that he was carried away by the angels into Abraham's bosom: and the rich man also died, and was buried." John McNeill says: "To me this one of the splendid passages of the Bible; the calm, majestic tones in which Christ flings aside the curtain and passes in. To him, the 'undiscovered country' is familiar and the books of judgment are an open scroll." Abraham's bosom is the way that the happy dead are often spoken of. It represents them as attending a feast at which Abraham is the host. Nothing is said as to the beggar's funeral, probably because there wasn't any. His emaciated frame was hastily cast into a hole. But for the rich man there was doubtless a most magnificent funeral service. There were hired mourners and pipers, and he was laid in a carved sarcophagus. Of this type of man, Henry Ward Beecher said: "There are men of wealth in New York, honored because prosperous, who heap up riches, and hoard them, and live in a magnificent selfishness. They use the whole of society as a cluster to be squeezed into their cup. They are neither active in any enterprise of good, except for their own prosperity, nor generous to their fellows. They build palaces and fit them sumptuously, but the poor starve and freeze around them. No struggling creature of the army of the weak ever blesses them. And yet their names are heralded. They walk in spacious and spectacular honor. Men flatter them and fawn upon them. Dying, the newspapers, like so many trumpets in procession, go blaring after them to that grave over which should be inscribed the text of Scripture, 'The name of the wicked shall rot.'"

NOW, there is nothing bad recorded about the rich man. He got his clothes at the best tailors', and he ate dinners of many courses, from soup to nuts. Doubtless he did a great deal of entertaining. Such people usually do. His estate was no doubt large, and he had hounds and horses for some fine hunting in season. We are not told where his villa was located, where he spent the winters, or where his summer residence was. Probably somewhere in the Lebanon mountains. But he was able to hit a fast pace, and he was hitting it most of the time. He did not disbelieve in God. In fact, he was probably very orthodox in his beliefs. He simply did not think much about God. It is very evident that he did not think much of his duty to God, which would mean his duty to his fellow men. In that respect he was hard and uncompassionate. The poor man desired to be fed with the crumbs that fell from Dives' table, but apparently his desire was not gratified. Most of the time he was hungry.

The rich man did not "live in the light of eternity." He lived for today. Now it sounds very old-fashioned to talk about living in the light of eternity. It is preacherified, and stiff. But it is worth while to remember that all great work is done with that attitude. The politician lives so as to get elected, but the statesman is not satisfied with that. He sees the life of the people on its moral side, as well as on the physical side. A great authority on literature has said that no big novel can be written except with

AND in Hades he lifted up his eyes, being in torments, and seeth Abraham afar off, and Lazarus in his bosom." This picturing of heaven's being in sight of Hades is terrific. The suffering soul has two requests to make. The first is for himself. He wants some one to come and ease his pain. Inasmuch as Lazarus had been but a poor beggar, the rich man still thinks that he should wait on him. When he learns that this is impossible, the better side of his nature comes out, and it is the first time that anything thoughtful of other people is manifest. He thinks of his brothers and wants them warned. And here is one of the deep places of Scripture. If some one goes to them from the dead, he thinks, they will repent. But he is told that he is mistaken. Miracles do not convince men. Jesus wrought miracles and his enemies went immediately away and plotted to kill Him.

SUNDAY SCHOOL LESSON FOR JANUARY 28.

SUBJECT:—The Rich Man and Lazarus.

LESSON:—Luke 16.

GOLDEN TEXT:—"Charge them that are rich in this present world, that they be not high minded, nor have their hope set on the uncertainty of riches, but on God, who giveth us richly all things to enjoy." I Tim. 6:17.



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RURAL HEALTH

By Dr. C. H. Lerrigo

TAKING THE AIR.

THERE is no room for difference of opinion as to the fact that the best and most necessary of all agencies for health is the free and unlimited use of God's fresh air. Theoretically we all agree as to this, but in actual practice there is evidently wide difference of opinion. We still find the person who has a conviction that it is very dangerous to breathe "night air." The fact that there is no other kind available between dawn and dark should dispose of these critics. But a much larger class is composed of those who are afraid of chill or raw air and who are therefore inclined to keep all bedroom windows closed in any but the mildest weather. They are making a mistake. A person who is snug in a warm bed may safely breathe the rawest air that blows, providing that he inhales it through the nose, as is intended by nature. Those who think of the nose only as a detective agent for protection against bad smells may be surprised to know that one of its most important functions is that of warming up the air so that it is at a suitable temperature for the lungs.

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

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

The best plan is to engage every day in some work or play that is sufficiently strenuous to make you breathe deeply because you can do nothing else. Young people who are out of doors a great deal take care of this without any thought. Men who do manual labor find sufficient stimulus in their daily work. The persons who need the help most are adults engaged in sedentary occupations, which includes in many cases the busy housewife, who, though busy about hard work from morn till night, lives on about the same level all the time. Let all such make a business of finding some work (or better, play) that will make them breathe to the bottom of the lungs every day.

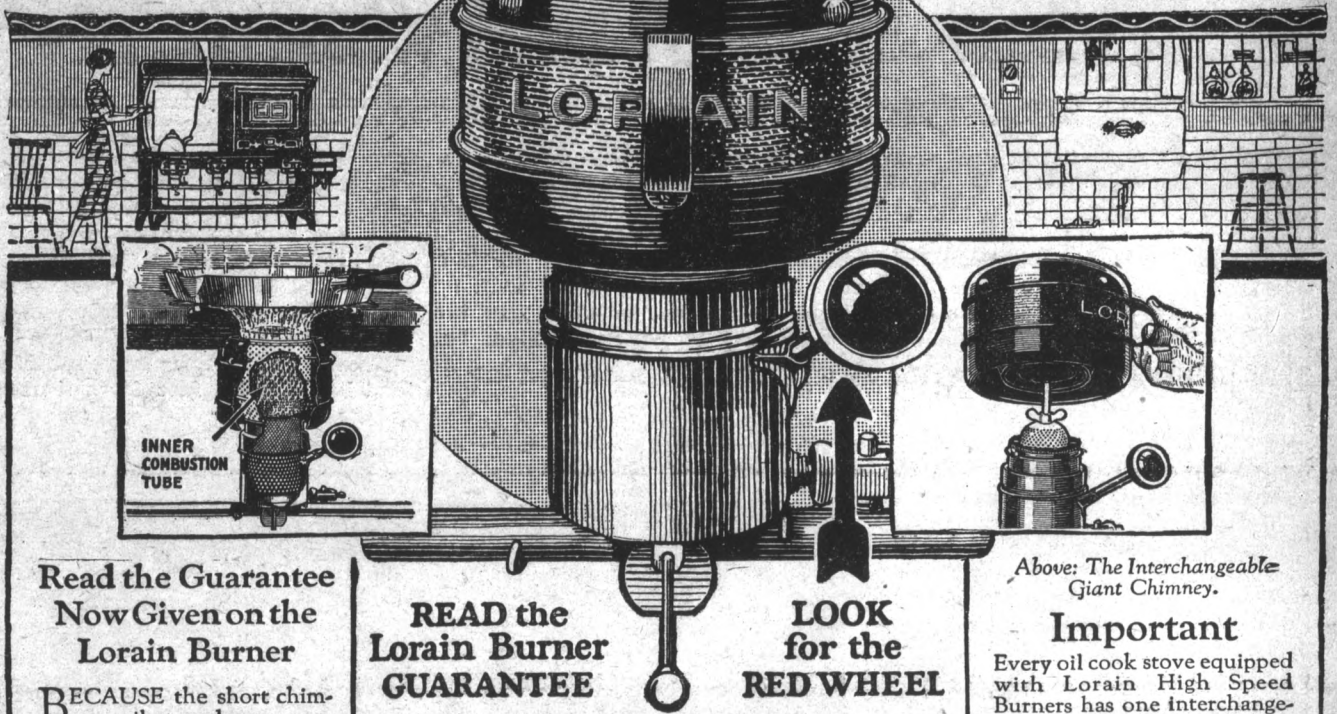
HAS RED NOSE.

Why is it that my nose is always red? What can I do for it, to make it like other noses?—A. B.

Some folks always have a red nose in cold weather but are all right at other times. There is nothing for them to do unless it may be to see that they maintain a vigorous circulation. In others the redness is constant and in these unfortunates it constitutes a real disease. It is not subject to any home treatment. Some cases have been successfully treated by eradicating a vein that was making mischief, and some cures have been made by the use of X-Ray treatments. It is a thing for treatment by a specialist in diseases of the skin.

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HIGH SPEED OIL BURNER



Read the Guarantee Now Given on the Lorain Burner

BECAUSE the short chimney oil stove burner produces an intense flame which strikes directly on the bottom of the cooking utensil, the heat generated has, in the past, caused the early destruction of its vital part, the inner combustion tube.

This fault has been completely eliminated in the Lorain High Speed Oil Burner by making the inner combustion tube of "Vesuvius Metal" which is not affected by the destructive action of this intense heat.

Therefore, American Stove Company now gives the following unconditional guarantee with each Lorain Oil Burner:

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

READ the Lorain Burner GUARANTEE

LOOK for the RED WHEEL

About Oil Stoves

FOR cooking purposes the short chimney oil burner is admittedly far superior. First, because it generates a clean, odorless, blue flame of great intensity. Second, because this intense heat comes in direct contact with the cooking utensil, not ten inches from it.

The Lorain High Speed Burner is probably the most efficient of all short chimney burners. It gives an intense heat. The burner won't get out of order. It is easy to operate. It seldom needs cleaning. Wick trouble is practically unknown. And, the burner is durable. Read the Guarantee.

You can get most any size, style and color of oil cook stove equipped with the Lorain High Speed Oil Burner, because many famous makes of oil stoves now have it as standard equipment.

Dealers everywhere. Write us if you can't easily locate one near-by.

Above: The Interchangeable Giant Chimney.

Important

Every oil cook stove equipped with Lorain High Speed Burners has one interchangeable Giant Chimney which makes any standard Lorain Burner a Super-heating Giant Burner—an entirely new principle in oil cook stove construction.

Special Features

Positive Wick-Stop stops Wick at Correct Lighting and Burning Point

"Boil-Overs" Can't Reach Wick

Wick Self-Trimming Requires Trimming

The Wick Won't Stick

Easy to Re-Wick

Many famous makes of Oil Cook Stoves are now equipped with the Lorain High Speed Burner, including

DIRECT ACTION—National Stove Co. Div., Lorain, Ohio

QUICK MEAL—Quick Meal Stove Co. Div., St. Louis, Mo.

NEW PROCESS—New Process Stove Co. Div., Cleveland, Ohio

DANGLER—Dangler Stove Co. Div., Cleveland, Ohio

CLARK JEWEL—George M. Clark & Co. Div., Chicago, Ill.

AMERICAN STOVE COMPANY, St. Louis, Mo.

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World's Largest Manufacturers of Cooking Appliances

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\$500 to \$700 Per Acre

growing strawberries from Keith's new-land plants. We guarantee our plants to be strong, healthy, true to name and to give entire satisfaction or we refund your money. No better plants are grown anywhere. They are certainly the best you can buy and they are guaranteed to reach you in good growing condition. We ship them well packed, direct from our Nursery. We supply you with a free copy of Keith's Ways to Successful Berry Culture with your first order. We have a splendid stock of Keith's Everbearing strawberry plants, as well as the well-known standard varieties, also grapes, raspberries, blackberries and other small fruits, all illustrated and plainly described in our handsome new catalog which is now ready for you. It is full of valuable information. Illustrating growing fields and fruits.

Write for it before placing your order. We advise you to let us have your order as quickly as possible so that you may be sure of just the kind you want. It's FREE, send today, receive it tomorrow.

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The Adventures of Hiram Masters

By LEROY W. SNELL



HE warm April sun was nearing the tree tops to the westward, tingeing with an emerald glow the waving blades of the wheat field, lighting with sudden fire the windows of the farm house, and kissing the swelling buds on the cherry trees; causing them to burn like living opals.

Winter had broken early: late March had been doused with April rains and now, in middle April, the smell of May was in the winds, mingling with the pungent odors of newly-turned earth, filling the land with wistful, indefinable longings and plucking again the heartstrings of youth and romance. And, between the lighted windows of the big white farmhouse and the fields of sunlit wheat, a solitary figure leaned against the gate post beneath the tall pine which stands like a sentinel by the roadway in front of the Masters' homestead.

Heavily he leaned against the post, chin on hand, eyes looking out over the sunlit fields yet seeing not; nor, was he listening to the sharp, sweet calls of the robins, gathering nest material on the lawn. Coatless and hatless, he was a man of medium height, whose broad, well-muscled shoulders were slightly bent with years of toil, his hair frosted to an iron grey. Yet on his smooth-shaven face there lingered a tinge of healthful color and the tiny creases at the corners of his now saddened brown eyes, showed that they were more wont to smile, and his wide firm mouth, one knew, could be either firm and stubborn or curved wide in hearty laughter.

This was Masters; Hiram Masters, whose broad fields rolling slightly to the southwards were conceded to be among the most fertile of all Stratford county, and yet, this day, his face was clouded with sadness and, with unseeing eyes he was gazing afar off into the misty past from whence a thorny roadway had wound itself slowly upward over the hills of time.

Masters was fifty-five, not old you will say, just middle aged. He was still physically strong and rugged, if not quite so spry and quick of movement as in his younger days, but sharp he was still, and alert mentally and poised with the balancing weight of experience.

Ten years ago his wife had died, leaving him with their one child, Helen. He had tried to be both a father and mother to her but Helen had responded to his kindly generosity and sacrifice with a smug selfishness. She

had married two years before our story starts and she and John Wellington, tall, shifty-eyed and dark, were carrying on the farm; and Hiram, in unsuspecting kindness had given a step here and a step there, until he had found himself crowded into the corners. His opinions were given but scant consideration. The business of the farm swung along and he, who had always been its moving factor, was forced to the background; to the position of bystander and, even at times,

man he was, with snowy white hair and beard. He wore a soft felt hat bent down to shade a pair of kindly grey eyes, and, when he pulled his horse to a stop, Hiram Masters greeted him as Doc. For it was Doctor Stoddard, or Old Doc Stoddard, as he was known far and wide.

Keenly the doctor surveyed Masters' half averted face for a moment then, abruptly:

"Well, what's it all about?"

Hiram turned quickly and for a

come to me and I'll look your head over."

Laughingly Doc clucked to his horse then paused to add slowly, thoughtfully:

"I noticed Mart Shoals has a couple of places for sale over town, the little white cottage on the corner of Elm street and the old Hill place next to Durands. If you know anybody who's thinking of moving to town for a spell, you might tell them, but be sure and warn them that Mart is a bit tricky and they'll need to keep their mouths tight or they'll lose their eyeteeth."

So saying he again started his horse and the little narrow-gauged buggy rolled off into the gathering dusk.

For a space Hiram gazed perplexedly after the disappearing buggy then his face lighted up.

"Well, I'll be blown. I got ye, Doc. I got ye!" A moment more of meditation then, "By George, I'll do it." With which strange exclamation he strode into the house, mounted the stairs to his bedroom, partly undressed, then sat by the open window gazing out into the starlit night, breathing deeply the smell of the spring and listening to the song of the frogs and—Hope and Faith these two—came and sat with him long into the night.

Busy with his thoughts, the doctor jogged along toward the village, turning at the first corner into a seldom used road, which would shorten the distance home. When he came opposite the Masters' woods at the rear of the farm he was surprised to see a bright light, flashing in and out among the tall trees. Watching it closely he decided that someone was picking their way over the woods path and, by the way they flashed the light on and off at intervals, he surmised that whoever it was, was not anxious to attract attention.

The doctor hitched his horse under the deep shadow of some tall willows then, climbing the fence, followed, with caution the retreating figure through the woods. The way led finally to a cut-over field, where hazel bushes and old brush piles tangled the pasture land. At one side of the field was a marsh area whence a sluggish streamlet flowed, or rather drifted, diagonally across a corner and crept under the fence to disappear again in the midst of another marsh on a neighboring farm.

It was down near the source of this stream that the doctor beheld, through the now deepened darkness, the shadowy form of a man moving slowly about, with the bright circle of his



Hiram Gazed Meditatively at the Doctor as He Drove Away.

was made to feel himself almost an intruder, an unwonted burden and a nuisance. Helen scolded at his clumsiness, burned and destroyed many of the little knickknacks of the old home, about which clustered untold sacred memories to him; and, when they, Helen and John, had company he ate in the kitchen and stole softly up the back stairs to listen longingly (for his was a natural social disposition) to the laughter and gaiety below.

Upon these things Masters' mind was dwelling tonight and, perhaps it was the odors of spring, the call of the night birds, or the waving of the fresh wheat blades; or, through them, the call of nature herself bidding all creatures and things to build anew; that awakened in him the cord of rebellion.

As the dusk deepened a horse and buggy moving slowly down the road, came within his range of vision. Slowly he straightened up, gazed fixedly at the rig for a moment to make sure of its identity, then walked to the road side and there waited its arrival. As the rig drew nearer the occupant of the buggy could be discerned, a small

short space studied his friend's face, then, grinning a mite sheepishly said:

"Doc, you've knowed me off and on fer some forty years, now I want you to tell me something straight from the shoulder, no palaver and no need to ease it to me. I got to know straight, I suppose you'll laugh but I get to thinking at times, and a wondering, and I just got to know, that's all. Now would you say—I don't know how to ask it exactly—but would you say that I had commenced to slip, inside I mean, is my mind on the down slide?"

Querulously, anxiously he looked up to where the Doctor's grey eyes took on a saddened look, for he had known for some time the trend of affairs at the Masters' home and had troubled over the misfortune of his old friend, then the sadness was swept away and a twinkle replaced it as he said:

"Hiram, you're a little stiff in your joints, but there are no joints in your head and I don't believe you've slipped enough so that I'd care to be on 'tother end of a horse trade. If you still have your doubts you might try a trade or two—horses, farms or fish stories—and, if you come off second-hand, then

AL ACRES—Al Says the Book Was Not Complete

—By Frank R. Leet.



flashlight focused upon the ground at his feet. Finally he stopped and, fastening his flashlight to a low bush so that its rays fell slantingly downward, he commenced prodding the ground with a crowbar, pausing now and then to kneel with his face close to the ground. Upon one of these occasions his face came within the circle of light. The old doctor gasped excitedly, drew back and slowly and with great care picked his way through the woods to where his horse was hitched, climbed into the buggy and drove thoughtfully homeward.

(Continued next week).

ILLITERACY IN CITY AND COUNTRY.

LAST week figures were presented in this column calling attention to the fact that six per cent of the population of this country were illiterate to the extent of no schooling whatever, and that the army test showed 24.9 per cent "unable to read newspapers and write letters." We are inclined to charge this condition to foreign immigration and our southern negro population which are both contributing factors, but let us not forget that we have 1,200,000 native-born white illiterates.

I wish this week to submit some figures relating to comparative illiteracy in country and city. Many would think that the city, with her slums and foreign districts, would certainly have a higher percentage of illiteracy than the country, but here are the figures: In 1920 we had a native-born population over ten years of age of 68,905,092; let us make it easier by calling it 69,000,000. Of this number 33,750,000 were urban, and 35,250,000 rural. Now, of the 33,750,000 first considered 613,000, or 1.82 per cent, were illiterate and of the number 35,250,000 living in the country, 2,471,000, or 7.1 per cent, had enjoyed no schooling. These figures are for native-born Americans. Do they reflect the comparative efficiency of the graded and rural school systems? Should equality of educational opportunity be guaranteed to all children irrespective of where they happen to live?—E. R. Root.

INTERESTS OF THE DAIRY PAIR.

BY HUGH KEPHART.

Kolrain Marion FINDERNE, Hail!
"Thou Empress of the Dairy Pair,"
All Wolverines with glad acclaim
And honest pride point to your fame,
Thou snow white beauty!
From out the fullness of our north
Your mighty records blazon forth
A shining mark among brave deeds;
But target dim for other breeds,
A noble duty.

A mild-eyed bossy, mute you stand,
A product of fair Michigan.
Today you are our proudest boast
Long may you be a reigning toast
Across our nation.
While you possess a lofty place
Proud mother of the human race
With laurels on your patient brow,
There's none on earth more meek than thou

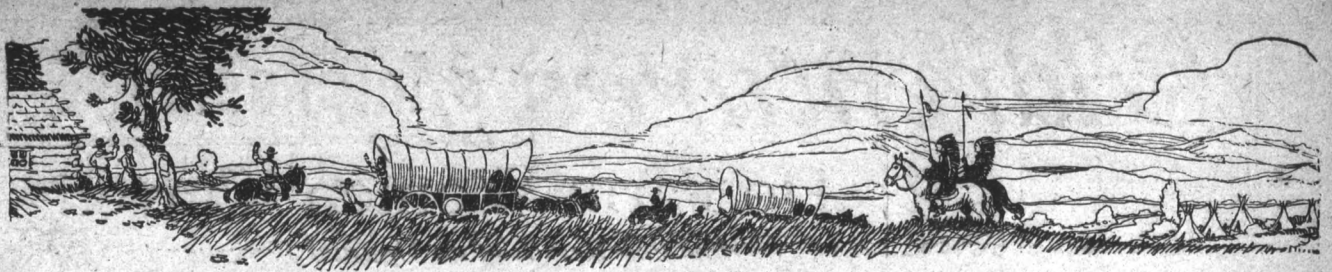
In any station.
Time passes on, beneath the sun
Men live and die, unknown, unsung,
While teeming millions aimless slave
Tho count for aught from birth to grave

As gods are grieving.

You've swelled the hearts of striving souls;
The fearless ones who fight for goals,
The willing-handed sons of toil
Now your reward's a noble spoil
And worth receiving.
Let every bard with gifted pen
Portray the deeds and fame of men,
Or from Parnassus' mystic hill
Send forth their notes that stir and thrill

While sweetly ringing.
The honest lads beside your stall
Who did their duties one and all
And Marion, our dairy queen,
Shall make my lay, shall be the theme
I'm proudly singing.

(Kolrain Marion FINDERNE is the highest producing cow east of the Rocky Mountains. She is owned by Loeb Farms).



The History of Dickinson's Progress

BACK in the early fifties, really in the days when the "Forty Niners" were wending their perilous ways across the western prairies, the founder of DICKINSON'S first began to gather seeds, and clean, sort and pack them for farmers.

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In 1854, the year the Dickinson business was founded, hand fanning machines supplied the only means of recleaning seeds. In the virgin fields, given up to seed production, many weeds had not yet made their appearance—but today clean fields are rare, and clean seeds are most important.

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The *Albert Dickinson Company* now use many processes, requiring costly and special machinery to remove the seeds of objectionable weeds, and to further purify *Pine Tree Brand Seeds*. Endless experiments and countless tests have gone into the making of *Dickinson's Perfected Process of Purification for Seeds*—with *Dickinson's* recleaning has become a science.

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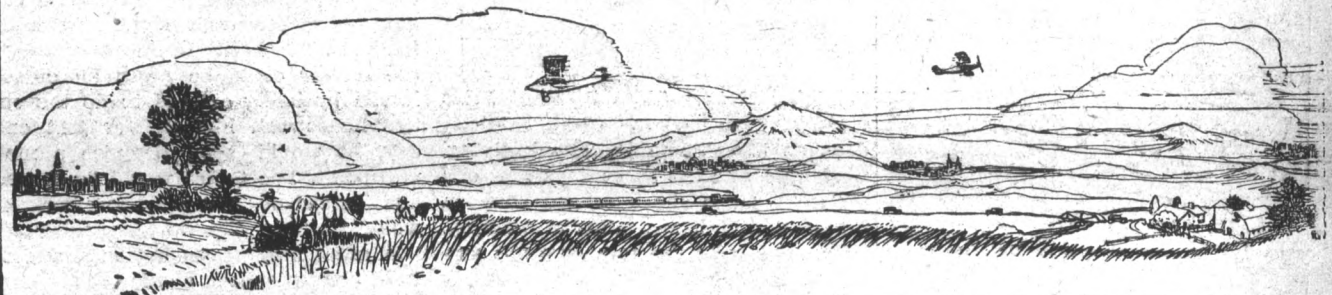
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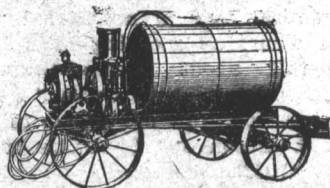
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Woman's Interests

Do Farm Women Travel?

Amazing Results of an Unusual Experiment

SOME would answer this question at first thought with a negative answer. Some would hesitate to answer such a peculiar question at all, while not a few, perhaps would be amazed at the correct answer. It is indeed true that the farm woman does travel and in several cases farther than many of the folks that we look upon as "travelers."

In a number of farm homes we find an inconvenient arrangement of living room, dining room, kitchen, pantry, cellar and other rooms which call for her presence many times each day. In such a case as this, an unusual experiment was performed to determine to just what extent a farm woman traveled. She wore for a length of time a pedometer, an instrument which records the distance a person walks. The results were amazing and without proof might have been doubted. This woman doing ordinary housework on a farm walked on the average of twelve miles a day when she was doing only her regular daily work about the house and farm. On such

now—wake up—in six years she would walk the distance around the world in her own house.

A short time ago the following conversation was overheard:

"What have ya been doin' today, Molly?" inquiringly asked John as he returned from the field.

"Just the housework," wearily answered Molly.

"What makes you so tired tonight then?" he again ventured.

"Just the housework," Molly repeated, and went wearily on with her supper preparation.

There is a goodly number of men who regard housework in the same light as John did. Undoubtedly many housewives have speculated a good deal on what would happen if John were to take their place in the kitchen for one day. Some have stated that they believe that if it were to be on Monday and there was no washing machine with which to do the family washing, there would be a new washing machine in the home before another wash-day arrived. Or, if it were a warm day in August, and the ironing was to be done, an oil stove would undoubtedly be forthcoming to take the place of the cook stove on warm days before the next week's ironing had to be finished.

In the majority of cases, men do not realize the inconveniences of the house. They may have many of the modern labor-saving devices to lighten the labor about the barn and in the fields. It is all very well, too, that the farmer should have just as many as he can afford, for who needs to have their labor lightened more than those who work on the farm?

But often, the farmer's wife is left to do her work on the farm with old devices rather than have new ones installed for her. In some cases, if the farmer could be given an object lesson by being obliged to do the entire housework himself, for just one day, he would soon acquire a new viewpoint. The tables would be turned and instead of "just the housework" it would be "just the workhouse."

A great many farm homes now contain conveniences similar to those (Continued on opposite page).



"Helping Mother Churn." First Prize by Mrs. R. H. E., Decatur, Mich.

days as threshing day, Thanksgiving, Christmas and the other days that call for extra steps she averaged between fifteen and eighteen miles of walking. When we make the total, we are surprised to find that she covers nearly four hundred miles in one month, and

Coming Doings at M. A. C.

FARMERS' WEEK comes this year from January 29 to February 2. Be sure you get Friend Husband interested in a little winter vacation trip down to East Lansing and that you come along with him.

All the women's programs will be held in the auditorium of the People's Church, in East Lansing. The first one will be on Tuesday afternoon and Dean Campbell will preside. If you farm ladies don't know Dean Campbell you have a rare treat in store for you, because she is a truly wonderful woman. Miss Grace Frysinger, who is field agent of the Middle States Extension Service will be there to talk at that meeting, about farm homes. Bess Rowe will be there, too. She is Field Editor for the Farmers' Wife and will give the results of that contest, "Do You Want Your Daughter to Marry a Farmer?"

On Wednesday morning Dr. Dye is to lecture at nine o'clock on nutritional research work at M. A. C. Dr. Dye (sure, she's a lady) is doing the most fascinating work and experiments in

a practical way in nutritional work.

On Thursday morning Miss Webb will talk about "Some Stumbling Blocks in Dress Construction." At that meeting, too, you are going to hear Mrs. Thompson on "Home Life of Girls at M. A. C."

Dr. Haynes will talk on Friday afternoon about the Shepherd-Towner Act and how it works. Dr. Haynes also ought to be able to clear up some questions in regard to the maternity bill. At this time there will also be another nutrition talk by Miss Hopkins and a clothing talk by Miss Ryan, both extension specialists.

That's the program for the mornings and Friday afternoon. The other afternoons there are demonstrations in the Woman's Building and exhibits to see everywhere. The evenings will be given over to joint meetings with the men and you will also want to see the exhibits in the Agricultural Hall and the apple show in the armory.

Don't forget the date, and arrange to be present with Friend Husband, that you may imbibe some of the good things the College has planned for you.

LIGHT HOUSE COFFEE



You can't afford to be satisfied until you have tried Light-house. For you will never know how good coffee can be until this delicious blend has delighted your palate. KEPT fresh in the round tin can. Your grocer has it in the whole bean or steel cut.

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MILLS
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J. N. ROKELY & SON, Rt. 6, BRIDGMAN, MICH.

How I Make My Rugs

By the Prize Winners

AFTER perusing the letters received this week on the making of rugs, I discovered the reason why the profession of the rural rug man is becoming nearly extinct. It appears to be quite evident that very little cast-off clothing is wasted. When beyond repair as clothing, it is made to perform a dual purpose and woven, crocheted or hooked into beautiful rugs. When the old rag man comes ambling down the road with the advent of spring, the housewife having spent many busy evenings in the past winter making rugs and comforters, waves to him to pass on, for she has nothing to add to his collection.

The letters were all very interesting. They portrayed a great enthusiasm toward domestic economy, and I enjoyed reading every one of them. Eventually I learned some new things in the rug making art myself. Fourteen different methods of making rugs were explained. Space allows but one of the prize winners to appear here. The others will be printed next week.

This week the letters are to contain some practical general hints in house-keeping. For the letter containing the three best hints that you have worked out in your home and found valuable in the kitchen, in the dining-room or on cleaning or baking day, we will give an aluminum preserving kettle. The second prize will be an aluminum frying pan, while the third, fourth and fifth prizes will be aluminum sauce pans.

Address your letters to Martha Cole, Michigan Farmer, Detroit, Michigan, before February 2.

First Prize.

Mrs. F. C., Ravenna, Michigan.

I have a rag rug that is admired by all who see it, because it is so different. I wash the cast-off garments as they accumulate and store them away to be dyed all at one time.

To color red use one ounce of cochineal, two ounces of madder compound, one ounce of cream of tartar. This is for one pound of goods. Soak the cochineal in water over night; in the morning boil the goods in the cochineal for two hours, then put in the madder compound. Let stand till cool.

To dye pink boil your rags in alum water first for two hours, then set off and let the alum water get about milk warm, then put in your madder, after it is all dissolved. Lift out the rags when you put in the madder and add one pint of good cider vinegar. Stir well, then put in your rags and boil for a half hour. One-half pound of madder and a half pound of alum with one pint of vinegar will color two pounds of rags.

When dying blue use one ounce of prussiate potash, one tablespoonful of copperas, two ounces of alum. Bring all to a boil in water; put in rags, let stand twenty minutes; stir often. Take out, rinse in warm water. This quantity will color five pounds.

When yellow is desired use one pound of sugar of lead dissolved in hot water, quarter pound of bichromatic potash dissolved in vessel of wood in cold water. Dip rags in the lead water first, then in potash. Do this till the color suits.

For orange take lime, slake, let settle, and drain off. Reduce by adding more water. Put in your yellow rags and boil till the color is dark enough.

For green dip your blue rags into the yellow dye till the right shade of green results.

After the rags are dyed and torn in strips about one inch wide, I sew them and then are ready to begin my rug. I use two coarse, home-made knitting needles.

Cast on thirty-six stitches; (1) knit

three, turn and knit back; (2) knit six, turn and knit back; (3) knit nine, turn and knit back. Proceed in this manner, knitting three more each time until you come to the point end. Then knit back. This completes one gore. Clip rag and sew on some harmonizing color and proceed as before. Continue until the work will lie flat on the floor and the ends meet. Bind off and overcast ends together. For a border I use black, mostly old cotton stockings and medium blue.

Cast on fifteen stitches; (1) knit three, turn and knit back; (2) knit six, turn and knit back; (3) knit nine, turn and knit back. Proceed until you have finished the gore as before. Knit in reverse order until you have finished a double gore of black. Sew a blue rag to the end at the point of the gore and knit a double gore of blue, making it only twelve stitches deep. This gives a curve to the border, making it fit perfectly to the gored rug. Overcast border to rug and, presto!—a beautiful rug which will please and puzzle old knitters.

DO FARM WOMEN TRAVEL?

(Continued from page 20).

found in the city homes, but on many, many farms the old-fashioned methods are still used. If a questionnaire were to be sent out to each farmer's wife on "What do you consider the most helpful thing to have in your kitchen?" the answers would undoubtedly come back, "Running hot and cold water." This is something that one uses at every turn and can be had at a moderate expense. Various methods for installing such a system depends upon the ultimate needs and facilities of each case.

Next, a furnace or steam plant would be second choice for the farm woman in many cases. The average man will manage a furnace, but he seems to take it for granted that his wife will manage the stoves. There are many very adequate heating plants on the market that can be installed at a small cost, considering their practical value.

Then comes electricity, from municipal or individual plants, which is not a necessity on the farm but a wonderful convenience, not alone to the farmer's wife but also to the farmer. It is valued not only for lighting but for power. The house and barns can all be lighted by simply pressing a button, while the farmer can use the power for running his silage cutter, wood saw, milk separator and other machinery and his wife can have the power for the washing machine, electric iron, churn, vacuum sweeper and numerous other household devices which are operated by electricity. It is by no means an expensive convenience for the service it renders.

These are only a few of the needed home conveniences for the farm home, but if Mr. Farmer would just look around a bit and see the extra labor of Mrs. Farmer, because of the lack of some of the modern conveniences, he could very wisely invest some of his spare cash for this purpose.

CONSERVING CLOSET SPACE.

A good way to make the most of closet space is to construct a whirling rack, similar to those used in stores, on which to hang garments. Take an old wheel off a disused baby cab or velocipede, paint it white and attach it by a long nail or bolt to the bottom of the closet shelf, so it will turn easily. Hangers may be attached slipped over the rim, and the wheel whirled about to get the desired garment.—Mrs. L.

Lily White

"The Flour the Best Cooks Use"



A GOOD RECIEPE FOR CINNAMON ROLLS

2 cups Lily White flour, $\frac{1}{4}$ teaspoon salt, 6 teaspoons baking powder, 1 cup sugar. Sift all together and add enough milk to make a soft dough. Roll out on board, brush over with melted butter, sprinkle with $\frac{1}{4}$ brown sugar, $\frac{1}{8}$ teaspoon cinnamon, $\frac{1}{4}$ cup raisins. Roll up and cut in 2-inch lengths. Bake 20 minutes.

Our Guarantee

We Guarantee you will like Lily White Flour, "the flour the best cooks use" better than any flour you ever used for every requirement of home baking.

If for any reason whatsoever you do not, your dealer will refund the purchase price.---He's so instructed.

For Three Generations

For three generations the best cooks have found in Lily White a flour that best meets all their baking requirements. Breads, rolls and biscuits are light, tender, of even texture, wholesome, easily digested—but best of all—good to eat. There is a taste to Lily White breads. The flavor is superb. This is because the flavor of America's finest wheat has been retained, and the result of a scientific milling process which retains this flavor, eliminates all dirt, produces a uniformly perfect granulation and makes baking triumphs assured.

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It will please you better than any flour you have ever used.

Some may think we claim too much for Lily White. We know we do not. The most convincing way we can bring this home to you is to guarantee every sack you buy to please you better than any flour you ever used. Read our guarantee, then call your grocer.

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"Millers for Sixty Years"



10 Cents

worth of common kerosene or coal oil will keep this Sunray lamp in operation for 30 hours. Produces 300 candle power of the purest, whitest and best light known to science. Nothing to wear; simple; safe; 15 Days' Trial

FREE Lantern

As a special introductory offer, we will give you a 300 Candle Power Sunray Lantern FREE with the first purchase of a Sunray Lamp. Lights up the yard or barn like a search light. Write today for full information and agency proposition.

KNIGHT LIGHT CO.
Dept. 3101 Chicago, Ill.

MICHIGAN FARMER PATTERNS. Some Attractive Spring Styles.



No. 4266—Ladies' Dress. Cut in six sizes, 34, 36, 38, 40, 42 and 44 inches bust measure. A 38-inch size requires $5\frac{1}{4}$ yards of 36-inch material. The width at the foot is $2\frac{1}{4}$ yards. Price 12 cents.

No. 4240-4112—Ladies' Jacket Suit. Coat 4240 cut in seven sizes, 34, 36, 38, 40, 42, 44 and 46 inches bust measure. Skirt 4112 cut in six sizes, 25, 27, 29, 31, 33 and 35 inches waist measure. To

make the suit for a medium size requires $6\frac{1}{2}$ yards of 40-inch material. The width of the skirt at the foot is $2\frac{1}{4}$ yards. Two separate patterns 12c for each pattern.

No. 4242—Child's Play Suit. Cut in five sizes, 2, 3, 4, 5 and 6 years. A four-year size requires $2\frac{1}{4}$ yards of 36-inch material. Price 12c.



No. 3441—A Set of "Short Clothes." Cut in five sizes: Six months, 1, 2, 3 and 4 years. A two-year size will require $3\frac{1}{4}$ yards of 27-inch material for the dress, $1\frac{1}{4}$ yards for the slip, and 1 yard for the drawers. Price 12c.



No. 4248—Boys' Coat. Cut in four sizes, 4, 6, 8 and 10 years. A six-year size requires $2\frac{1}{4}$ yards of 54-inch material. Price 12c.

No. 4251—Girls' Dress. Cut in four sizes, 6, 8, 10 and 12 years. A ten-year size requires $2\frac{1}{4}$ yards of 36-inch material. Price 12c.

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WADE all day in water, slush, snow or mud—your feet will always be warm, dry and comfortable if you wear Goodyear "Besto" Boots or Bootees. They're steam-cured in vacuum and firmly welded, from top to toe, into one solid leak-proof, wear-proof piece. Extra heavy extension soles are a special feature.

Longer Wear in Every Pair

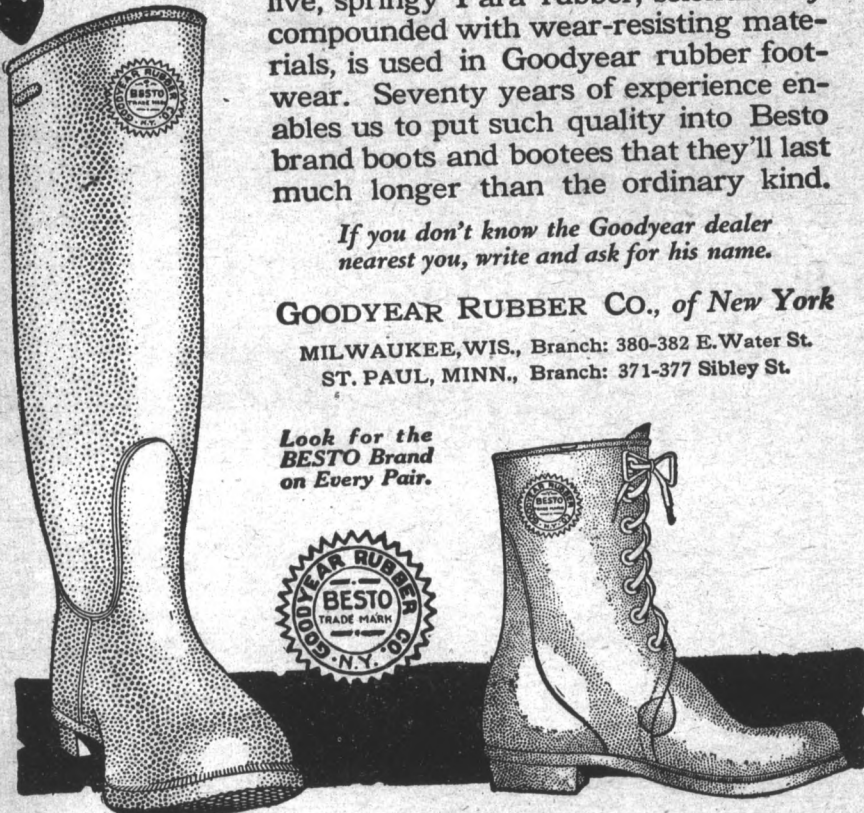
No Shoddy substitutes to crack, peel or freeze. Only live, springy Para rubber, scientifically compounded with wear-resisting materials, is used in Goodyear rubber footwear. Seventy years of experience enables us to put such quality into Besto brand boots and bootees that they'll last much longer than the ordinary kind.

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

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Look for the
BESTO Brand
on Every Pair.



Our Boys' and Girls' Page

Found In Our Letter Box

Letters from Pals Found in the Correspondence Corner

Dear Uncle Frank:

I am a boy fifteen years of age. I have blue eyes and brown hair, red lips and rosy cheeks. Why, I am as pretty as a kewpie doll. I also am smart at sending the dog after the cat. The whole reason I do it is to see the cat clean house on the dog.

I like the taste of green apples, and also the taste of delicious castor oil, and I like to have a bellyache.

We have a large ram with large horns, which chased me up on the woodpile and the woodpile fell down, and believe me, I did the same as the woodpile.

Well, Uncle, it is time for your nephew to roll into bed. I hope this letter will not reach the waste basket, unless you have a good one. I will tell you later, Uncle, how much I love you. About your picture, I think it is

thoroughbred Poland China pigs which I bought from my father. I would like to correspond with some one.—Yours truly, Catherine Lewis, East Le Roy, Mich.

You certainly can be my niece, Catherine, for I like girls for nieces who are busy in such wholesome activities as you are. Let's hear more about your work.

Dear Uncle Frank:

I think I shall make a try in the poetry contest. I like to write verses and hope you will have some more contests.

I am eleven years old and nearly half past. I have been in fourteen different states in this country but think Michigan is good.

Oceans of love from your niece, Opal Beilby, Centerville, Mich.

I am pleased to get oceans of love from my half past eleven-year-old niece who has been in fourteen states.

Dear Uncle Frank:

I wager you would be very cross if you had written four letters and never saw one in print. Can't you imagine how I feel, too? I said that I would get very much discouraged if I did not see my third letter, but it will be four times and out.

I am a girl fifteen years old. Am five feet one inch tall, and I weigh 101 pounds, (that is, a short time ago). I have brown eyes and dark brown hair. Most girls would have bobbed their hair but I didn't, and now bobbed hair is going out of style and I'm glad mine is long now.

I am answering the popular Read-and-Win Contest for the third time. If I should be so lucky as to see my name in print I would stand on my head.

Well, this letter is just about to the speed limit. I must stop cackling or else the other cousins won't have any room. "Now, best beloved," (so a popular story starts out), don't forget to write to me. I mean all the cousins of the Merry Circle. I'd love to get one of those wonderful pins.—Gladys Miller, Alma, Mich., R. 2, Box 78.

It doesn't take much imagination to know how you feel, but I hesitated about using this letter, because I am not sure whether it is right for you to stand on your head or not. Let me know if you did.

Dear Uncle Frank:

I wrote you a letter some time ago but I did not see it in print, but I am going to try my luck again.

I described myself in the other letter so I think there is no use describing myself again, as you know what I look like, but I am afraid if you saw



Hattie Spear Took this Picture on Her Grandpa's Farm.

too bad that all the children have not seen their uncle.—Your nephew, Helmer Blomquist, Wallace, Mich.

The climate, or something in Wallace, must stimulate humor. I am expecting that love letter, Helmer. I wish more boys would write interesting letters.

Dear Uncle Frank:

I just finished finding the answers to the Read-and-Win Contest, which I am enclosing. Here is hoping I will win a prize, for I have tried many times. Anyway, I will have a button, and that will be quite an honor, that is, if I have the answers right. I am fourteen years old and am in the tenth grade at Lapeer High School. We have a fine collie dog which has seven fine puppies. They are now old enough to sell but we have not offered them for sale yet. I am going to have a registered calf in the spring.

Well, my letter is getting long so I will close.—Your niece, Anna Nelson, Lapeer, Mich., R. F. D. 6.

I think in a little while after the Merry Circle buttons get out, it will be "button, button, who's got a button?" It is fine that you will have a registered calf next spring.

Dear Uncle Frank:

This is my second letter and with this I am sending my answers for the Read-and-Win Contest. I hope I get a prize for I have tried about four times. I have nearly given up, but I tried again because I want one of those Merry Circle buttons.

I second the motion of some of my cousins that you put your picture in the Boys' and Girls' Page. I know what all my uncles look like except you. It sure seems funny not to know what my own uncle looks like.

I didn't realize this letter was getting so long. I must close.—Your niece, Helen Sawyer, South Haven, Mich.

I don't think it pays to give up, do you? Although my picture won't help the department any I am going to print it some of these days. So, just wait.

Dear Uncle Frank:

May I be one of your nieces? I was in a canning club this summer and won a trip to the State Fair at Detroit. We were there for four days. I go to Battle Creek every Saturday for my piano lessons, and Saturday evenings we have a singing school at our Congregational church, which we use as a community center.

We also have a sewing club in our school, so I am very busy. I own four



"Sonny" Riding on M. R. Soule's Hay-rake at Romeo.

me, you would die by just looking at me. Ha! Ha!

The boys and girls sure have got some opinion of how you look. Haven't they? Gimy Gump sure had some opinion of how you looked, didn't he? Well, I must close my chatterbox.—I remain, your niece, Minnie Blackbird, Petoskey, Mich., R. 1, Box 60.

I would like to see you, even though I would take a chance on dying. I am anxious to know more about my Blackbird niece. Gimy knows how I look.

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Shows fruit trees, small fruits, shrubs, evergreens—of all varieties—in actual colors. Landscaping sketches and collections for beautifying city, town and country lots. Shows how a few dollars properly spent for the right varieties will add hundreds of dollars to your property value. A book full of nursery stock bargains from grower direct to you at a saving that will open your eyes. To illustrate note these:

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100 Evergreens, 2 years old, Northern grown, prices **\$2.50**

1 BARGAINS 100 Strawberry plants of 4 varieties, \$1. Red or Black Raspberries, 20 for \$1. Concord Grapes, 12 for \$1. Blackberries, 12 for \$1. Snowberry, 6 for \$1. Rosebushes, 8 for \$1. Gladiolus Bulbs, 20 for \$1. Many other bargains in catalog.

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REDHEAD Tomato

THIS NEW and better, egg-shaped, deep red, prolific, and of very early, and smooth skin color. Very good size.

Let me send you my new Seed Book and magazine "Seed Sense". Both Free When you buy my seeds you get "your money's worth" or your money back. Send your name and address today.

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'What's Wrong with School?'

By The Prize Winners

By Olive Schneider, Merrill, Michigan.

Nothing is the matter with school for me. I like it real well. I have a very good teacher. My schoolmates are also agreeable. I like most of my studies real well. I think my teacher tries to make them interesting. If I did not have a good, and part of the time pleasant, teacher, I think I should not like school. Another reason for liking school is that I enjoy learning. How sad it would be if we had no school to go to. Some very amusing things happen at school which sometimes make us laugh. It seems natural to enjoy being with other children to play together at recesses and noons. Possibly the lessons we learn by association with other children are as important as those we learn from our books.

Although, I think that if one does go through school, he will in the future be glad of it, even if he did have a thousand troubles.

By Stanley Hood, Detroit, Michigan.

School, what is it?
Oh, who knows?
Just a nuisance, some suppose.
Work day after day
And not half enough play.
There is not a gym
Not even a place to swim.

The seats are hard
And arithmetic not soft.
When it comes to report cards
I wish there was no school, and off,
When vacation does come
I have not the life for fun.

But vacation does not last.
You have to get up early
And often have to hurry.

By Marie Bush, Chelsea, Mich., R. 1.

In Michigan there is generally eight or nine months of school. I think there should be about six or seven months in a school year because, in the spring the farmers need the help of the older children in the plowing and planting time. If they are kept from school it counts off that much on their reports. In the fall they are needed to help their parents harvest the grain, cut wood and butcher, so are again kept from school.

It is hard to study in such warm weather as the last of May and the first of September.

In some districts the school board do not pick out teachers that are helpful to the pupils. Some of the teachers are cruel to the scholars, especially men.

I think every school should have something to amuse the children with, like croquet, basket ball, base ball and other games.

Every school district should see that the school is fitted with a good heating and ventilating system so that they can all enjoy good health.

By John Chatlosk, Stephenson, Michigan, R. 1.

I would like school better if we had some shade curtains and some music. We have an organ, but it's good for nothing. I would like it better if we could have more books. We haven't much play ground either. We have no swimming pool nor ice pond. We haven't much room to play games in school. The pump is pretty far. We haven't enough blackboards. We haven't a very good woodshed and the wood gets wet so it's not very warm in school. And it is dark in the hall. We need some bookcases as we haven't enough room for our books.

By Dorothea Warner, Traverse City, Michigan, R. 5.

I think that there are many things the matter with school, especially high school, for:

1. One must not be late or absent, for then one misses the necessary things and then, too, one must get an excuse from home, which makes a lot of bother.

2. One must be careful in the choosing of the subjects which one may take.

3. There are too many unnecessary subjects taught in high school, which would never be of any account to one in later life.

4. And there is all study and no play, for one must study all day long and sometimes until eleven o'clock at night, leaving no time to tease or bother little sister or brother.

Now, folks, I am sure that this is all true, for I attend high school, and I know.

Ad. Reading Contest

THIS contest is just like the Read-and-Win Contests, except that you will find the answers in the advertising columns of this issue. After you have found what you think is the answer, write it as briefly as possible and give page on which you found it. It is not necessary to write the questions or to make the answers out in sentence form. The two best papers will entitle their writers to Michigan Farmer pencil boxes; the next three, nickled pocket pencils, and the next five, Michigan Farmer maps of the world and new Europe. This contest closes February 1.

Address Uncle Frank, Michigan Farmer, Detroit, Michigan.

1. What has 267 per cent more holding power than a one and a half inch staple in a wood post?
2. What carries with it certain definite responsibilities on the part of the dealer?
3. What new tomato is different?
4. What saves half the cost of dairying?
5. How much increase per week in butter-fat did clipping cows produce?
6. Oldest, largest and best; established in 1874. What is it?
7. What does your grocer have, either in the whole bean or steel cut?
8. Who never sacrifices quality to make a low price?
9. What has one-third of the working parts of any other mill?
10. Who has cut the heart out of prices?

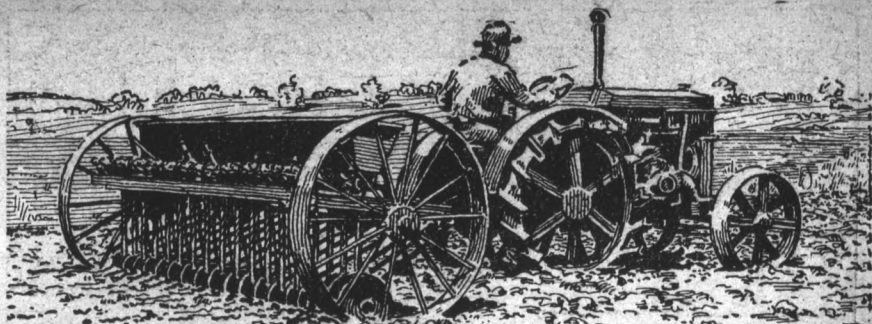
For more books I hate to ask
They make the hardest part of the task.

The grades go flying by
And then we go to high.
But after all, we're glad
We've gone to school as a lad.

THE WINNERS.

ABOVE are the letters of the first five prize winners in the school contest. The first two win pencil boxes and the next three nickled pocket pencils. The following five, whose papers could not be printed because of the lack of space, win Michigan Farmer maps:

Ralph Hawker, Ypsilanti, Mich., R. 3, Box 71.
George Meldrum, 9756 Yosemite, Detroit, Mich.
Grace E. Wood, Adrian, Mich., R. 4.
Ruth Tabor, Wayne, Mich.
Elizabeth Polly Svinicke, Stephenson, Mich.



Give Your Seed a SUPERIOR Start

DO you know the most costly piece of equipment any farmer can own? The answer is easy—a worn-out grain drill! Poor seeding makes real profits impossible.

If you want a bumper crop this year—and every year—play safe on the seeding job. Give your grain a Superior start.

Superior Grain Drills

For Team or Any Tractor

positively insure perfect seeding. The right depth; the right distance between rows; the right kind of trench; proper covering for each individual grain—every factor for successful germination and growth is assured when you use the world's standard grain drill.

See your Superior dealer—or write direct and let us tell you exactly why SUPERIOR seeding always means better seeding.

The American Seeding-Machine Co., Inc.
Springfield, Ohio



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PAY NO ADVANCE FEE; don't give option of tie up real estate for any kind of contract without first knowing those you are dealing with are absolutely honorable, responsible and reliable.

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FOR SALE: 570 acres cleared farm land, on "SUNNY side of Cloverland"—Schoolcraft county, upper peninsula of Michigan. Two barns, implement buildings and dwelling house. Adjacent to county road; near railroad and supply centers. Few rods from Kennedy Lake. Three miles from Manistique Lake—beautiful summer resort region. Also 60 acres on Manistique Lake. Reasonable to right party or parties. Write, Mrs. W. W. Hargrave, 728 Spruce St. Marquette, Mich.

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15% down, and \$75 yearly on each \$1,000 invested, pays all in 20 years. 20 and 40 acre tracts, \$180 per acre. Home in GOLD'S country for man with small means. White F. J. Austin, Willows, Calif.

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Long growing season, irrigation water in abundance, and a wonderful climate make the valley of the Colorado the garden spot of the state for general farming, fruit and truck. Practical farmers invited to write for information.
THE MESA COUNTY CHAMBER OF COMMERCE
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"The Garden of the Rockies"

Poor Man's Chance \$5 down, \$5 months by buys 40 acre, 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 \$87.50 per acre \$1000 cash. THE ALLEN COUNTY INVESTMENT CO., Iola, Kansas.

Farms Wanted Give full description and cash price. Quick sales. Leaderbrand Sales Agency, E-40, Cimarron, Kansas

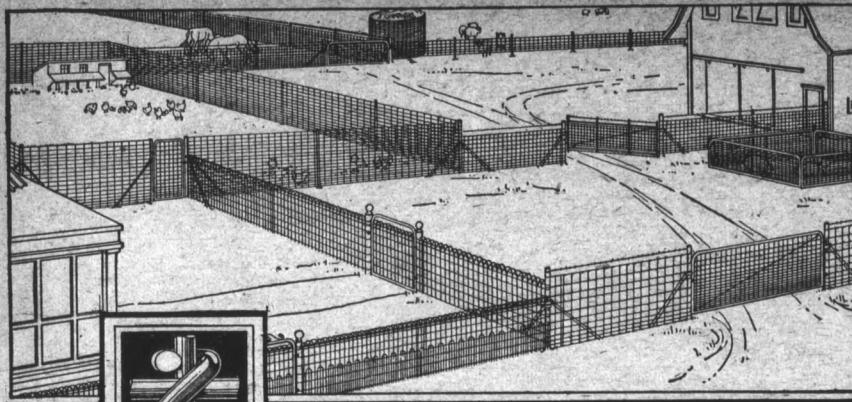
Want to hear from party having farm for sale. Give particulars and lowest price. JOHN J. BLACK, Capper St., Chippewa Falls, Wis.

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

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

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

Additional Farm Ads on Page 127



SQUARE DEAL LONG-LASTING PRODUCTS

Hog and Field Fence—With famous "Square Deal" knot, full gauge wavy or crimped strand wires, picket-like stay wires and always live tension.

Poultry Fence—Keeps chicks in and pests out.

Lawn Fabric—Beautifies the home; costs little.

Sheep Fence—An economical fence because of its wide spacing.

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Barbed and Smooth wire, nails and staples and fence stretchers are dependable when they bear the Keystone mark.

Use Square Deal Everywhere

Many thousands of careful buyers who know true economy buy "Square Deal" fence in preference to all others. These five points decide them:

1—**Full gauge wires** are stronger and last longer than the skimpy kind.

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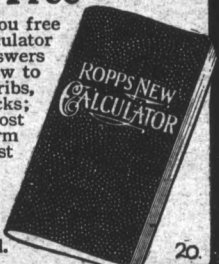
5—**Wavy or crimped strand wires** provide elastic tension that prevents bagging and sagging.

"Square Deal" fence adds beauty; increases farm values; is easy to put up and economical because of its long years of service.

Two Fine Books Free

If you own land we will send you free a 50c copy of Ropp's New Calculator—a handy farm book that answers 75,000 farm problems; tells how to figure capacities of barns, cribs, silos; shows tonnage of hay stacks; gives commercial law, parcel post rates. Also Square Deal Farm Book that tells what fence is best suited for every farm need. Write postal today for both books. Send no postage.

Keystone Steel & Wire Co.
4920 Industrial St., Peoria, Ill.



Sanitation in Poultry Yard

The Third Article on the Prevention of Poultry Diseases

By H. J. Stafseth,
Dept. Bacteriology, M. A. C.

THERE are several reasons for emphasizing the importance of sanitary conditions in the poultry yard. In the first place, almost all contagious diseases of poultry are, as has already been maintained, spread through the droppings. Some of them are spread through other channels, but in every case contaminated premises play an important role in the dissemination of communicable diseases of domesticated fowls.

Second: No diseases of this character can successfully be treated medically without the simultaneous application of preventive measures, including cleaning, disinfection and isolation.

Third: When soil has once become

would perhaps be better, in many respects, than those provided by the range. Here the birds would have plenty of freedom and room for exercise. They would be able to pick up certain nutritional constituents which they instinctively feel the need of and which are often lacking under the artificial conditions of the poultry plant. It is, however, a well known fact that birds on the range are not immune to contagious diseases. The idea that tuberculosis and certain other diseases of similar nature are caused by crowding is erroneous. Close and inadequate quarters aid in the spread of infectious disease, but without the specific cause, the germ, there can be no communicable diseases. Many of these germs will find just as favorable conditions on the range as in the farm yard and it will therefore be evident that disease eradication is made the more difficult the greater the area over which it has been spread.

The Dust Bath.

This is a most important adjunct to the comfort and good health of poultry. In the dust bath the birds find opportunity for ridding themselves of loose feathers, dead scales and scurfs of skin and at least a considerable number of external parasites. It also is a great aid to individual cleanliness. The dust bath should consist of dry, light sand and the addition of a little cheap snuff will increase its usefulness in combating parasites. If conditions permit, the best place for the dust bath is in the open. It may, however, be placed in a convenient place in the house to almost equally good advantage.

Feeding.

It is not the purpose of this paragraph to give full instructions regarding feeding of poultry. However, as the main purpose of feeding very often seems to be that of obtaining high production, a few remarks relative to this matter should not be wasted. It should not be forgotten that health is at least to some extent dependent on proper feeding and that although a ration brings excellent results as far as production is concerned, it may nevertheless in time prove disastrous to health. The inner secrets of proper feeding are still far from being known, but we do know a few things which



Fig. II—Wryneck. Intestinal Intoxication.

contaminated with disease-producing organisms it is not so easy to obtain a complete disinfection. Thus the ground may become a future menace to the flock, especially so in the case of worm infection. Eggs of intestinal worms are very resistant to the common agents which in most cases would destroy disease-producing bacteria. The following are some of the requirements that every modern poultry plant should meet as far as yards are concerned. The yards must be well-drained. There should be no pools of stagnant water. The soil should be light and there should be sufficient room so as to prevent crowding. Shade should be available, but owing to the fact that direct sunlight is an excellent disinfectant the shade trees should not be placed so that portions of the yard are permanently prevented from being exposed to the direct rays of the sun.

The yards should be divided into a number of pens so that the rotation system of pens may be practiced and frequent inspection may be facilitated. This is indispensable if certain contagious diseases should make their appearance because by such a system one may move the flock to clean, uncontaminated pens while the infected ones are being disinfected and exposed to the purifying effects of sunlight and air.

Without such an arrangement it would be exceedingly difficult to get rid of intestinal worms because of the resistance which their eggs possess against the common agents employed in yard disinfection. It is also now known that the eggs of the Heterakis papillosa (a round worm of poultry) may harbor the cause of blackhead. The Histomonas meleagridis (cause of blackhead) may remain for years in the soil without losing its disease-producing power, owing to the protection it derives from being contained in these eggs. The practice of moving the birds from one pen to another, allowing the vacated pens to remain unused for several months should aid materially in the elimination of communicable diseases and especially so if the soil is covered with lime and turned over before returning the birds.

If contagious diseases could be excluded from the state no conditions



Fig. I—Limberneck Botulism.

have a direct relation to the subject under discussion.

Spoiled feed, whether it be of plant or animal origin, should never be fed. Fig. 1 shows a picture of a hen affected with botulinus poisoning. The owner of the flock to which this hen belonged lost twenty-two out of twenty-five birds in four days after having thrown a can of spoiled corn into the yard where the chickens quickly disposed of it. This condition should not be confused with the one shown in Fig. 2. The latter is called wryneck and is not caused by any one agent as is botulism or, as it is commonly called, limberneck. Wryneck may often be eliminated by a dose of physic or at other times by removing the meat from the ration. Too much beef scraps

You Take No Chances ON A KLONDIKE

The Klondike Incubator is built for women, who raise 90% of the nation's poultry. The Klondike is easy to operate. It has a perfect heating system and positive heat control. It is supplied with "handy-to-handle" egg trays and Redwood nursery trays. And it stays right year after year.

Ask Your Dealer

to show you the Klondike. If he hasn't them in stock he can wire at our expense and get you a Klondike immediately. Write today for our FREE CATALOG. Full of helpful information for all incubator users. Just drop us a postal and we will send it to you without obligation. Klondike Incubator Co., 399 S. W. 9th St., Des Moines, Iowa.

140 Egg Incubator \$13.25
30 Days Trial

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Over half million farmers save money buying from Brown—you can too. Send for free Catalog. **THE BROWN FENCE & WIRE CO.** Department 2805, Cleveland, Ohio

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From World's Champion Layers. Certified, Trap-Neated, Pedigreed, Snowden's English White Leghorns, 250-281 Egg records, Shepard's 531 Egg strain Anconas. Guaranteed strong healthy chicks. Real money makers. Beautiful Catalog FREE. **FRANK A. VAN BREE, Box 32, Zeeland, Mich.**

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Hatching Value We Ever Offered

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260 Egg Incubator with Brooder - 32.90

Freight paid. This incubator has two doors and two egg trays. Order direct from this ad and save time, or send for free catalog today.

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GET IT FROM THE FACTORY DIRECT **These Michigan Men Save**

"I saved one-third," declares Wm. B. Lee, Stanton, Michigan.

"I saved one-half by ordering from you," says Elmer Parski, Kearsarge, Houghton County, Michigan.

Direct from Factory to Farm

You, too, can save money. Our thousands upon thousands of regular customers are cutting their fence costs to the very bone by buying direct from us at **Lowest Factory Prices**. The quality of Kitseleman Fence was never higher; prices are way down. Buy now and keep the difference in your own pocket.

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America's Oldest Fence Manufacturers.

American Poultry Journal

Oldest, Largest and Best **4 MONTHS' TRIAL 25 cts.**

1 Yr. 75c 2 YEARS \$1 5 Yrs. \$2

Averages over 100 pages per issue—tells how to feed, house and breed; how to secure high egg production; how to hatch and rear poultry successfully. Established 1874. Only 25c for 4 mos. Stamps accepted. **American Poultry Journal, 64-523 Plymouth Ct., Chicago**

or tankage should not be given. Dr. Beach, of the University of California, investigated a number of outbreaks of fowl cholera and found that the removal of meat from the ration checked all of the outbreaks. It may be noted that an unusually large amount of meat was fed in most of these cases. Leg weakness and diseases resembling roup, together with a number of other disturbances of health, have been linked up with nutritional deficiency. The feeding of roughage in the form of paper pulp, or tissue paper, ground and mixed with a wet mash, has been found beneficial in certain forms of leg weakness. Food rich in minerals and vitamins, such as tomatoes, sprouted oats (fed before they turn completely green), bran, buttermilk and similar substances have proved their value in promoting health and their influence should not be lost sight of.

In order to keep the feed clean and free from contamination with droppings, hoppers, or a construction similar to the one mentioned in a previous installment of this article, should be used.

It is a very common practice to feed scratch feed in the litter. This has the advantage of inducing the birds to take exercise. It has, however, one rather serious disadvantage, namely that of forcing, as it were, the fowls to pick their feed out of a more or less contaminated mass. In the presence of contagious diseases this is a potent factor in the spread of the infection. The amount of dust which is raised during the time that the birds hunt for their grain is sometimes so great that it may be injurious to the mucous membranes of the nasal passages. The litter should therefore be as free from dust as possible.

Too much attention can scarcely be given to this phase of poultry husbandry and many factors involved in proper feeding cannot be controlled. One thing, however, is within the power of control of any poultryman and that is the amount fed. Over-feeding is about as bad as under-feeding.

FEATHER EATING AND LEG WEAKNESS.

I READ in the last issue of the Michigan Farmer, where T. S. complained of the poultry flock picking the feathers off one another, and also of leg weakness among the flock.

Feather picking among the flock is caused by the birds not getting enough meat material. A hen, in trying to produce eggs, craves all the materials necessary to produce this: Flesh, bone, blood, etc., as this is what an egg consists of. The flock should be fed daily of a mixture of bran and meat scraps, one-fourth meat scraps to three-fourths bran.

Leg weakness is caused by any of the following: In-breeding, lack of nourishing food, over-crowding, damp quarters and sometimes from too wide a perch to roost upon. The fowls have an unsteady gait. In attempting to walk, they topple over, either forward or backward, and in advance stages are wholly unable to walk. The feet and legs become feverish and dry.

For a treatment, one should rub the legs with oil of camphor, and add about fifteen grains of iodide of potassium to every quart of drinking water. A generous supply of good poultry tonic should be mixed with nourishing food.—L. B. Reber.

USE OF LIGHTS.

Lights from about 4:00 a. m. until daylight, or from 8:00 to 9:00 in the evening, with feeding at that time—these two methods have found most favor among poultrymen who have tried various lighting periods on their flock.

TRY This Canopy-Brooder 10 Days At Our Risk

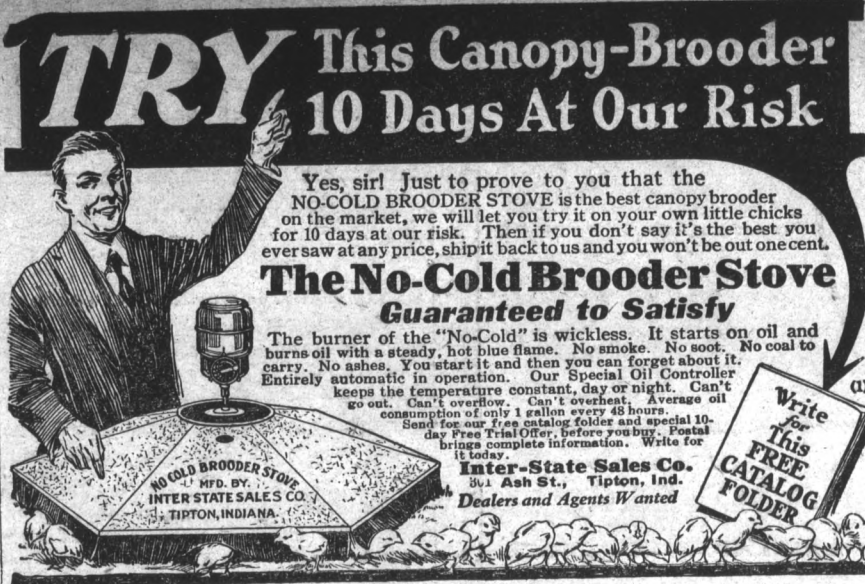
Yes, sir! Just to prove to you that the NO-COLD BROODER STOVE is the best canopy brooder on the market, we will let you try it on your own little chicks for 10 days at our risk. Then if you don't say it's the best you ever saw at any price, ship it back to us and you won't be out one cent.

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The burner of the "No-Cold" is wickless. It starts on oil and burns oil with a steady, hot blue flame. No smoke. No coal to carry. No ashes. You start it and then you can forget about it. Entirely automatic in operation. Our Special Oil Controller keeps the temperature constant, day or night. Can't go out. Can't overflow. Can't overheat. Average oil consumption of only 1 gallon every 48 hours. Send for our free catalog folder and special 10-day Free Trial Offer, before you buy. Postal brings complete information. Write for it today.

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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.

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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 offers and Specials offered. Order early. Write for prices and Free Illustrated Catalog.

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Good Chicks--Fair Prices

Pedigreed and Utility Grades on Barron Type White Leghorns, also Barred Rocks and S. C. R. I. Reds. Customers report Pullets laying at 4 months and 20 days. Pedigreed Chicks from flocks headed by males bred by Mich. Ag. College from trap-nested hens of 200 to 300 egg record. Leghorns, 25, \$5.50; 50, \$10; 100, \$20. Rocks and Reds, 25, \$6.75; 50, \$12.75; 100, \$25. Utility Chicks from selected, free range flocks, purebred, heavy egg strain hens. Great value in Medium Priced Chicks. White Leghorns, 25, \$4; 50, \$7.50; 100, \$15; 500, \$70; 1,000, \$136. Barred Rocks & Reds, 25, \$5; 50, \$9; 100, \$18; 500, \$88. All prices hold until May 1st, discount of one cent per chick on all orders placed before March 1st. 97% live delivery guaranteed by prepaid Parcel Post. Instructive catalog free. Bank Reference.

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From good heavy laying flocks on free range. WHITE LEGHORNS, 50, \$7.; 100, \$13.; 500, \$62.50. BARRED ROCKS & REDS, 50, \$8.; 100, \$15.; 500, \$72.50. From Extra Select flocks headed by Mich. Ag. College Cockerels, WHITE LEGHORNS, 50, \$8.50; 100, \$15.; 500, \$72.50. BARRED ROCKS & REDS, 50, \$9.; 100, \$17.; 500, \$82.50. Postpaid and full live delivery guaranteed. Order now from this ad. Catalog Free.

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\$13.95 Buys 140-Egg Champion Belle City Incubator

Hot-Water, Copper Tank, Double Walls Fibre Board, Self-Regulated Safety Lamp, Deep Nursery, With \$6.95 Hot Water 140-Chick \$18.95. Both for only \$13.95.

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East of the Rockies and allowed to points beyond. With this Guaranteed Hatching Outfit and my Guide Book for setting up and operating, your success is assured. Save time—Order now—Share in my \$1000 in Prizes.

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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, 2½ pound broilers at 9 weeks. Write for free catalog quoting prices on eggs and chicks. Rose and Single Combs.

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World's Famous Layers.



Flocks culled by poultry experts and headed by vigorous pedigreed males. Silver Ward Chicks will start you right. Let us book your order now. Fine, Illustrated CATALOG Free. Write today.

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Barron English White Leghorns, Brown Leghorns, and Anconas.

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

Customers Report Big Profits with these wonderful layers.

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

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Barred Rocks, R. C. Rhode Island Reds, Anconas and White Leghorns. Bred from selected culled out layers. We have just what you want at exceptionally low prices. Write for catalogue and price list.

THE DUNDEE HATCHERY,
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Egg-Bred Chicks

ENGLISH type White Leghorns, Brown Leghorns. From wonderful layers. 11 years of breeding for egg production. Breeders headed by large vigorous males from high record hens. Large combed deep bodied type. You will be proud to own a flock of these Leghorns. Live delivery guaranteed. Illustrated catalog free. Write today.

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

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CHICKS That Pay

from hens that lay, English White Leghorns. Proven winter layers. Flocks culled by poultry experts and headed by large, vigorous 300-303 egg pedigreed males. Place your order now as these chicks hatched, egg bred chicks will prove to be real money makers next fall and winter. Fine illustrated catalog free.

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8 leading varieties, free range, pure bred stock, 100% live delivery guaranteed. Postage prepaid. Catalog and price list free.

Scott Bros. Hatchery, Edison, Ohio.

CHICKS 12 Leading Breeds

Free range, purebred, heavy laying flocks. Instructive catalog free. Prices right.

Ransom Farms, Box 6, Geneva, O.

Additional Poultry Ads. on Page 123



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The privilege of selling Goodyear Tires carries with it certain definite responsibilities on the part of the dealer.

He pledges himself, for example, to give you service that will help you get from Goodyear Tires all the mileage built into them at the factory.

He prefers to sell Goodyear Tires because he knows he can sell them to more people, and thus be compensated for lower profits on each sale.

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Dealing with them, you are sure of a quality product of exceptional and demonstrated value, supported by a service that will save you money.

Goodyear Means Good Wear

GOODYEAR

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Dairy Farming

SKIM-MILK COMPARED WITH TANKAGE.

SKIM-MILK is worth about one-tenth the value of tankage from a stock-feeding standpoint, according to a table recently prepared by Prof. George A. Brown, M. A. C. Buttermilk which is fresh and has not been diluted with churn washings has the same value as skim-milk.

Skim-milk is also worth about twenty-five per cent the value of middlings, pound for pound, and about ten per cent the value of oil meal.

EXCELLENT RESULTS IN WEST ALLEGAN.

IN his yearly report of the West Allegan County Cow-testing Association for the year 1922, Tester J. R. Livermore says:

There were 231 cows entered in the association for the year, averaging 6,778.8 pounds of milk and 320.2 pounds of butter-fat. In 1914-1915 Mr. R. H. Addy, then cow-tester in Allegan, succeeded in raising the average of this same association to 301 pounds of butter-fat, the first time this mark had ever been reached in the United States in any cow-testing association. Now for 1922 this same association has reached the 320-pound butter-fat mark and is still "going strong" with prospects for 1923 better than ever before.

Six of these 231 cows made over 500 pounds of butter-fat and thirty of them over 400 pounds of butter-fat. Although the average feed cost for the association was \$62.62 per cow, the average return for the association was \$85.18 above cost of feed, or \$2.25 for every dollar expended for feed.

Mr. H. M. Atwater had high cow for 1922, Jersey, May Star of St. Lambert, II, producing 547.3 pounds of butter-fat. Frank T. Lane was second with a Holstein, Carrie, having 531 pounds of butter-fat. C. S. Methvan was third high, with a four-year-old Guernsey, Evelyn, 514 pounds of fat, and L. C. Pedersen had fourth high cow in the three-year-old Jersey, Bessie, 512.4 pounds of fat. Mr. H. M. Atwater also carried off high herd average with 1,066.5 pounds of milk and 531 pounds of fat for five cows. C. S. Methven's herd of seven cows was second with 9,715.3 pounds of milk and 439.8 pounds of fat, while the Taylor & Jager Guernsey herd ranked third with 9,134 pounds of milk and 413.4 pounds of fat. Just what would be better than a C. T. A. with good live cooperating members?

In eight years this Allegan county, Michigan, Cow-testing Association has

raised its average to almost twice the average for this country and is still improving. Let us all speak a kind word for good cows, better sires and with the cow-testing association to help let us know where we stand.

HELPS FARMERS TO IMPROVE HERDS.

I HAVE lately discovered that we have something unique for north-eastern Michigan. We now have a cow-testing association in Ogemaw county which has been in operation for two months with excellent results. Mr. Baltzer tells me that it is the first in this part of the state.

Some very good results have already been achieved in the work. The last report of the tester which was for the month of November showed one cow giving sixty-three pounds of butter-fat per month and several giving over fifty. On the other hand, it showed several not paying their board and some of these in the flush of their milking period. The culling out process is already on and the acquiring of new and better stock has also begun.

But the most notable result has been the improved feeding methods. One very good feeder has been enabled to increase the production of one single cow over ten pounds of butter-fat per month and without increasing the feed of the herd at all. Part of the feed was taken away from one cow that could not handle so much and given to another that could handle more. The low one did not decrease but the other one increased.

Another had two cows that returned eighty-nine cents and \$1.25 respectively for each dollar's worth of feed. They have since been marked for slaughter and the owner has replaced them with excellent grades.

Another man was feeding high-priced, ready-mixed feeds. A ration was worked out for him that saved him a dollar per hundred on his home-grown feed, supplemented with some concentrates.

And so on, I could name many such results. Improved feeding rations have been furnished over half of the members with good results. The association is considered by practically all of the members as one of the greatest steps ever taken to promote the dairy interests of the county.

The association hired Jesse Huggett as tester and he is giving excellent results.—W. E. McCarthy.

Ontario, to keep her position in the British dairy market, has organized a million dollar cooperative selling association.

STOKVIGOR

Make your own Stock Tonic and Calf Meal at home. Don't pay freight on bulky material. We supply the medicinal ingredients. A 12 lb. can of Dr. David Roberts STOKVIGOR mixed with 150 lbs. of linseed meal makes you the very best

STOCK TONIC

without adulterations. Feed it to your Cows, Horses, Sheep and Pigs and raise your Calves on it. It makes an excellent Calf Meal. For sale by dealers or postpaid \$1.00 and \$5.00. Ask for FREE copy of The Cattle Specialist and how to get the Practical Home Veterinarian without cost. Veterinary advice FREE.

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

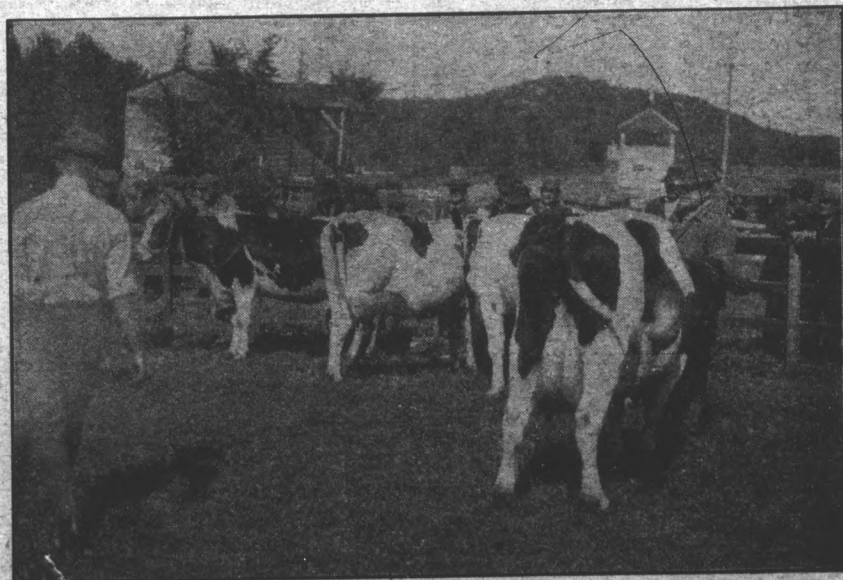
STOKVIGOR

FERRETS FOR SALE
N. A. KNAPP & SON, R. 2, New London, O.

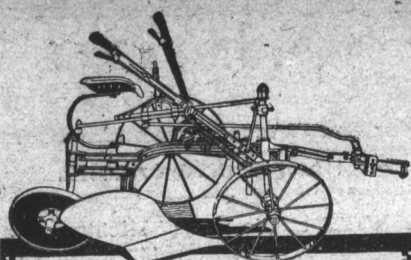
**TRY a Michigan Farmer
Classified Liner. They
bring results.**



BARREN COWS are the results of
CONTAGIOUS ABORTION
Prevent this by using **ABORNO**.
Easily administered by hypodermic syringe. Kills abortion germs quickly without harming cow. Write for booklet with letters from users and full details of Money-Back Guarantee.
ABORNO LABORATORY
44 Jeff St. Lancaster, Wis.



No single Agency Has Done More to Build up Herds of Good Dairy Cows Than Has the Cow-testing Association Headed with a Good Tester.



More Acres of Good Plowing

It's an unusually long-lived plow—there are more acres of good plowing in it—that's the reputation the John Deere Stag has earned in many years of wide use. And note these other qualities:

The Stag is Light Draft

—all weight carried on smooth running wheel bearings—no dragging friction. Genuine John Deere bottom scours, resists wear and does thorough work. Quick detachable share. Greater clearance than usual between beam and share-point, and between moldboard and front furrow wheels. Landing lever enables operator to maintain full width cut around curves and hold plow to work on hillsides. See the Stag at your John Deere dealer's.

SEND TODAY for free Stag folder. Also tell us of other implements on which you want information and we will send you free, "Bookkeeping on the Farm,"—useful for your farm accounts. Address John Deere, Moline, Illinois, and ask for Package SX622.

JOHN DEERE
THE TRADE MARK OF QUALITY MADE FAMOUS BY GOOD IMPLEMENTS

POULTRY

CHICKS

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

Lee's Poultry Farm and Hatchery
Edison, Ohio

RURAL CHICKS

Rare Bargains, in High Grade Stock, Proven Layers. Liberal Discount on all orders booked now. Strong, vigorous free range, English White Leghorns, Brown Leghorns, Anconas, Live arrival and absolute satisfaction guaranteed. Write at once for free valuable catalogue and attractive prices. Bank reference.

RURAL POULTRY FARM,
Zeeland, Michigan

Dept. M. R. I.

QUALITY CHICKS

Barron Eng. White Leg. Br. Leg and Anconas. Strong, sturdy chicks from scientifically culled M.A.C. Inspected free range breeders. Ten years of consistent breeding for egg production. Wonderful Winter layers. Winners at leading shows. Buy direct from our modern 65 acre poultry farm and get highest quality chicks at lowest prices. Shipped Postpaid. 100% live delivery guaranteed. Special discount on all orders booked now. Illustrated Cat. Free. Write to-day. Poultry Farm, Dept. M., Zeeland R. I. Mich.

DAY OLD CHICKS

Best Payer, Heavy Laying, Pure Bred Tom Barron English White Leghorns, Rhode Island Reds, Park's Barred Rocks, Strong healthy chicks from State Inspected and Approved Stock. Order now at new low prices. Instructive catalog FREE. Brummer's Poultry Farm, Box 20 Holland, Michigan

BABY CHICKS

Pedigreed State Approved **S. C. W. Leghorns** We hatch eggs from our own 2300 hens only. Satisfaction guaranteed. Descriptive circular. Simon Harkema & Son, R. 1, Holland, Michigan

64 BREEDS

Most Profitable chickens, ducks, turkeys and geese. Choice, pure-bred northern raised. Poultry, eggs, incubators at reduced prices. America's great poultry farm. 30th year. Valuable new 100-page book and catalog free. R.F. NEUBERT Co., Box 814 Mankato, Minn.

Barred Rocks

egg contest winners, eggs from a rain with records to 250 a year. \$2.00 per setting prepaid by P. P. (Gittens) free. FRED ASTLING, Constantine, 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.

PRODUCED WHITE LEGHORNS

Lay 265 to 301 eggs per year. Winners at 50 shows. Chicks, eggs, pullets, hens and males shipped C.O.D. at low prices. Write today for catalog and complete information to the World's Largest Leghorn Farm. GEO. B. FERRIS, 934 Union, Grand Rapids, Mich.

BABY CHICKS

Leading varieties from selected heavy laying pure bred stock. Get our prices before buying. Catalog Free. Sarnborn Hatchery, 945 E. 150th St., Cleveland, O.

VALUE OF TESTING ASSOCIATION.

IT is difficult to secure positive evidence of the value of many organizations. Here, however, is a little evidence which goes to show something of the benefit that a member may derive from a cow-testing association. One dairyman was offered \$2,000 for a herd of six registered Holstein cows and sixteen grade cows. The cow-tester felt that this was not sufficient money. As a result he cleaned the animals, clipped and fitted them for sale, when \$2,750 was realized as compared to the former offer of \$2,000. This work was a little aside from the regular duties of a cow-tester, but illustrates how these men can be of special service to the farmers among whom they work.

MICHIGAN MAN APPOINTED MEMBER OF RESERVE BOARD.

PRESIDENT HARDING has nominated Milo B. Campbell, of Coldwater, Michigan, to be the member representing American agriculture on the federal reserve board. This appointment is to fill the new position created on this board by the act of congress of June 3, 1922.

Mr. Campbell has labored long and actively in the interests of agriculture and agricultural organizations. Since the launching of the National Milk Producers' Organization, he has been its president. Also for more than forty years he has been an active member and worker in the grange. His appointment should prove most valuable and popular with American farmers.

WOOL POOL SETTLED IN FULL.

RESULTS of the Michigan State Farm Bureau's 1922 wool pool have been announced by the bureau. Checks in final settlement of all 1922 accounts have been sent to the members. The 1922 pool paid the farmer an average net price of 39.14 cents for the five best grades of wool and an average net price of thirty-four and one-half cents a pound for all thirteen grades of wool, including discounts, tags and bucks, according to the report made by the farm bureau's wool department. The average price paid farmers by local dealers during 1922 was thirty-one and one-half cents a pound, according to reports made by them up to November 1 last to Verne H. Church, United States Crops Estimator at Lansing.

The farm bureau opened its pool on May 1, 1922, and advanced fifty per cent of the market value of the wool pooled. The last pound of wool in the pool was sold the last week in November and one week later the farm bureau had the final checks in the mails.

Farm bureau wool pool sales were in accordance with the steady improvement of the wool market during the summer and fall so that some of the better grades of wool sold from forty-two to forty-six cents a pound. The small amount of delaine wool in the pool sold for fifty cents a pound. Farm bureau officials declare that the management and sales service of the 1922 pool effected considerable savings over previous pools. Preparations are well under way for the farm bureau's 1923 wool pool.

MICHIGAN JERSEY BREEDERS TO MEET.

THE annual meeting of the Michigan Jersey Cattle Club is called for January 30-31, in connection with Farmers' Week at the Michigan Agricultural College. Every Jersey breeder should make his way to this gathering of the club, join if not already a member, listen to the good program and take part in the election of officers. H. F. Probert, of Jackson, is the president, and David B. Miller, of Eaton Rapids, is the secretary-treasurer.



Make Your MILKERS PAY

Every cow in your herd can be made to produce up to her full capacity

—if you look well to her ration, her health, her appetite and her digestion.

Balance the ration. Feed bran, oats and corn, or their equivalent, cottonseed or linseed meal, clover hay, alfalfa, silage—pasture in season.

Remember, the better the appetite the greater the food consumption, the greater the milk production.

DR. HESS STOCK TONIC

Keeps Cows Healthy Makes Cows Hungry

It conditions cows to turn their ration of grain, hay and fodder into pails of milk.

It contains *Nux Vomica*, greatest of all nerve tonics. *Quassia* produces appetite, aids digestion. *Salts of Iron* keeps the blood rich. There are *Laxatives* for the bowels, *Diuretics* for the kidneys, to help throw off the waste materials which so often clog the cow's system.

Excellent for cows at calving. Feed it before freshening. Good alike for all cattle.

Tell your dealer how many cows you have. He has a package to suit. **GUARANTEED.**

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

Except in the far West, South and Canada.

Honest goods—honest price—why pay more?

DR. HESS & CLARK Ashland, O.



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

Dr. Hess Dip and Disinfectant

Keeps the Dairy and Stables Healthful and Clean Smelling

BABY CHICKS of SUPERIOR QUALITY

From 12 select heavy laying varieties of Standardbred poultry, free range and Hogan tested, \$12 per 100 up. Full value for your money. Shipped by prepaid parcel post and 100% live delivery guaranteed. Send for free catalogue and prices.

Bowling Green Hatchery & Breeding Co.
Box 115M. Bowling Green, Ohio

Day Old Chicks

Strong, sturdy, S. C. White Leghorns (English Strain) from large, vigorous, yearling Hens, raised on our own farms, that Lay and Pay. Barred Rocks and Rhode Island Reds from best laying strain. Send for our illustrated catalog free.

Hillcrest Poultry Farms & Hatchery,
R. 2, Holland, Mich.

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

WOLVERINE BABY CHICKS

Are chicks that satisfy.

Bred for egg production 13 years. 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. Its free.

WOLVERINE HATCHERY
ZEELAND, MICH. R 2

CHICKS

from winter laying English S.C.W. Leghorns. Eggs from yearling hens hatched only. No pullet eggs used. If you want to make big profits, you will need my stock. Write for prices. HUDSONVILLE LEGHORN RANCH, Hudsonville, Mich.

BABY CHICKS We hatch leading varieties of Standard-Bred vigorous, heavy laying stock. Postage paid. Live arrival guaranteed. Send for our prices, open dates and large illustrated catalogue free. Write today. Superior Poultry Co. Box MF, Windsor, Mo

Attention, Northern Michigan Breeders!

S. C. White Leghorns Eggs \$1.00 per 15, \$6.00 per 100. Orders filled as booked. High fertility and satisfaction guaranteed. W. G. PARKER, Charlevoix, Mich.

Barred Plymouth Rock Cockerels \$5.00 each. Prize winning laying strain. J. A. BARNUM, Union City, Mich.

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

S. C. White Leghorns

Cocks and Cockerels
RALPH S. TOTTEN, Pittsford, Mich

Strong, Vigorous Chicks and HATCHING EGGS S. C. Anconas, White and Brown Leghorns. Postpaid. Safe arrival. Also pullets, and breeding stock. Catalogue free. Ottawa Hatchery and Poultry Farm, Holland, Mich

Bred-To-Lay White Wyandottes

Special sale of cockerels from 200 egg hens for \$5.00 if taken early. EVERGREEN POULTRY FARM, Blanding & Sons, Greenville, Mich.

BABY CHICKS from good selected heavy laying flocks of T. B. S.C. White Leghorns, Sheppard-Anconas and Barred Rocks. SUMMIT HATCHERY, Byron Center, 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

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

Single Comb Black-Minoreas. Few choice cockerels, grandsons of our 12. R. W. MILLS, Saline, Mich.

Special Sale of R. O. Br. Leghorn e'k's from winners at Mad. Sq. and State Fairs. \$1.50 to \$3.00 each. Mrs. Claudia Betts, Hillsdale, Mich.

White Wyandotte Cockerels. Finest Bred-to-Lay Stock. HOWARD GRANT, Marshall, Mich.

Bourbon Red Turkeys We have them. Order your SMITH BROS. & S. Augusta, Mich

Additional Poultry Ads. on Page 127

BREEDERS' DIRECTORY

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



Edgar
of
Dalmeny

George
Henry

5 Grand Champions

28 FIRSTS

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

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

The services of our Grand Champion Stallion, **GEORGE HENRY** are available.

Your correspondence and inspection are invited.

WILDWOOD FARMS
ORION, MICHIGAN

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

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

For Sale, Pure Breed Aberdeen Angus cattle, both males & females. Heifers, with calves by their side. Andrew Eitel, Vermontville, Mich.

The Michigan State Ayrshire Breeder's Association

Will have a consignment sale of thirty Registered Ayrshires at the M.A.C. on Jan. 29th, mostly females consigned by some of the best breeders in the State. For Catalogue apply to Edward C. W. Roberts, Sec. Feneville, Mich.

Registered Guernseys

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

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

Wallinwood Guernseys

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

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

Guernsey Bulls ready for service. From Adv. Reg. cows. Accredited herd. Write for pedigree. Glen Clark, Eau Claire, Mich.

LONG VIEW FARM GUERNSEYS Bulls of superior breeding ready for service. O. C. SIGNS, Ionia, Mich.

WINNWOOD HERD

Registered Holsteins

?

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

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

The Traverse Herd

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

TRAVERSE CITY STATE HOSPITAL
Traverse City, Mich.

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

COLANTHA BULLS

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

Holsteins for Sale

Ten registered cows and heifers, mostly by 32 lb. son of King Hengerveld Edman, Tayne. Some due in March by Grandson of King Segis DeKol Korndyke. J. Taylor Gage, Manchester, Mich.

Fair View Stock Farm

Big Type Poland Chinas

Sells 40

Consisting of Tried Sows, Fall Yearling, Spring Gilts and 5 Choice Fall Boars

THURSDAY, FEBRUARY 1, 1923

At the Farm in Basement Barn Regardless of Weather.

Most of this offering is bred to Hover's Liberator and Tuscola Clansman. Tuscola Clansman was 1st prize pig at Mich. State Fair and his sire was Grand Champion. He is a great boar and a litter sired by him will start you in the hog business. Write today for catalog. It describes them all.

Auctioneers: Wm. Waffle, Coldwater, John Hoffman, Hudson

Field Men: P. P. POPE, Michigan Farmer, WESLEY HILE, American Swine Herd, E. R. LEONARD, National Poland China Journal

DORUS HOVER, Akron, Mich.

"Sunbrite Farms"

BRED DUROC SOW SALE

Tues. Feb. 6, 1923, 1:30 P. M.

15 daughters of the Grand Champion Wolverine Woodford Sensation bred to Jack Terrel, son of Orion T, Grand Champion Ohio State Fair 1922 and out of the first prize litter at same fair. Ten sows out of outstanding boars bred to Wolverine Woodford Sensation. All double immune. **Tie Barn--Sturgis, Mich. Write for Catalog**

FRANK BORGERT, Prop., Sturgis, Mich.

HERE IS A GOOD ONE

A Yearling son of MAPLECREST DE KOL HENGERVELD, sire having three sisters each with records of over 1200 lbs. of butter in a year, two of them former World Champions. Calf's dam sister to three, each with records of over 1200 lbs. by PONTIAC AGGIE KORNDYKE. This combination of breeding has produced more 1000 to 1200-lb. cows than any other of the breed. If yearly production counts with you, where can you equal it? Price \$150.00 for quick sale.

HILLCREST FARM
KALAMAZOO, MICH.

For Sale King Segis Breeding

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

Grand River Stock Farms

Corey J. Spencer, 111 E. Main St. JACKSON, MICHIGAN

HOLSTEIN BULL

Wanted herd bull prefer one that has some tested daughters must be sure breeder and priced right. Send pedigree and Photo also "Price in first letter. Address: X. Y. Z. Michigan Farmer.

REGISTERED HOLSTEINS

A few of those large size. Straight Top cows for sale. Some with good official records, these would be excellent for a foundation herd. I. M. SHORMAN Fowlerville, Mich.

FOR SALE Registered Holstein bull ready for service from good A. R. O. dams. Well grown, good individuals, nicely marked. Write for prices and pedigrees. Federal accredited herd. Geo. D. Clarke, R. 2, Ithaca, Mich.

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

For Sale, or lease 27 lb. son Maple Crest Korn-Heng, his daughters better individuals and over 1/2 more milk than their dams M. L. McLaulin, Redford, Mich.

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

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

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.

Produce Your Own Feeders under EARLRIPE HEREFORD BEEF PLAN, which guarantees maximum prices. Investigate personally the success of other Michigan Farmers. For information write **T. F. B. Sotham & Sons**, (Herefords since 1839), St. Clair, Mich.

HEREFORDS

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

ALLEN BROS.

616 So. West St., Kalamazoo, Mich.

The Michigan Agricultural College

offers for sale the

Hereford Herd Bull

Anxiety Fairfax 4th, No. 703709

also the Aberdeen-Angus Herd Bull, Blackbird Brandon 2nd, No. 247885. Both of these bulls are now five years of age. Each has sired winning steers for us at the Chicago International.

FOR SALE

Polled Shorthorn Cows & Heifers

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

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

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

Richland Shorthorns

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

C. H. Prescott & Sons,

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

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

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

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

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

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

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

Red Poll Cattle, Bulls, Cows and Heifers, Yorkshire Swine. **E. S. Carr**, Homer, Mich.

STEERS for SALE

90 Herefords 800 lbs. 68 Herefords 680 lbs.
86 Herefords 575 lbs. 50 Herefords 450 lbs.
30 Shorthorns 725 lbs. 48 Shorthorns 950 lbs.

Know of other bunches. Also Angus cows 3 and 4 yr. olds and Angus calves. If in the market for real quality, one load or more, your choice, write stating number and weight preferred.

VAN B. BALDWIN

Eldon, Wapello Co. Iowa

HOGS

Are You Short of Capital? Do you prefer extra good, pure bred Berkshires to scrubs? If so buy of Talcoo Farm and pay with hogs. Spring boar of Royal Charming 10th and Matchless Lee 8th breeding. Fall pigs for spring delivery. Best of blood lines and conformation. **TALCOO FARM**, R. 7, Lansing, Mich.

Duroc Fall Yearling

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

W. C. TAYLOR, Milan, Mich.

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

Breeders' Page

By P. P. Pope

HAMPSHIRE GALORE.

OVER at the side of Michigan State Trunk Line No. 14, a couple of miles south of St. Johns and in front of the home of John W. Snider we set the brakes. The landscape was covered with hogs, black hogs with white saddles, and they all looked alike. Mr. Snider was away from home but his "Charge de Affairs," Mr. Harris, very kindly showed us around.

Out behind the barn we saw more brood sows than one farm often carries in Michigan. Twenty-six of them all told. These are the regular herd sows, and in addition sixty gilts are being bred for the spring trade. Mr. Snider evidently believes in "putting all his eggs in one basket and then watching the basket," for he farms on a comparatively small scale and raises hogs to beat the band. There were about the pens and lots a hundred or more hogs, besides so big a grist of fall pigs we couldn't count them. Here is a good sign to put up in your hog house: "When in need of Hampshires, see Snider."

LITTLE BROTHERS' SHORTHORNS.

I SPENT a delightful hour the other day with Little Brothers. They are not so little either, neither in person nor as cattle men. They have a good farm over on the county line between Lenawee and Washtenaw counties near the village of Macon.

We had been told that they had some real dual-purpose Shorthorns. There has always been a warm spot in my heart for cattle of this sort since the days of "Old Bess," an old family cow that long ago exploded the theory that both beef and milk could not be profitably produced by the same animal, so we drove over to the farm and can say that we were not disappointed. Out in the barnyard we saw half a dozen aged cows, cows with large frames covered with smooth flesh, and swinging good udders that have been regularly and consistently filling big pails.

Among them, looking contentedly prosperous, stood a mountain of beef flesh and quality, a son of the noted milking Shorthorn bull, Imp. Hartsforth Welfare. He is a great bull by a great sire, and wins increased admiration by a disposition that welcomes rather than resents the presence of strangers.

A few beautiful two-year-old daughters of this bull were just about to enter the sea of maternity, and some big rugged yearling sons and daughters were the kind that delight the heart of the practical farmer who wants to milk cows that also have beef-making inheritance.

In one of the roomy comfortable box stalls were a thrifty bunch of babies. They are tied in their individual places at feeding time so that each calf gets his share and no more. They say, "it is the eye of the master that fatteneth his cattle," and, allowing me to be the judge, I say that Little Bros. have a good eye for cattle as well as an eye for good cattle.

FELDKAMP & FOXY.

OUT on the Jackson road (M 14) about three miles west of Manchester, there stands a little red brick school house. That's where you turn. Ten minutes north from here is where you stop. It is the home of A. A. Feldkamp and Foxy Clansman. Mr. Feldkamp is the one that wears the hat, and Foxy is the wearer of the purple. He and his herd mate, F's Clansman,

are both state fair grand champions. Two years in succession Mr. Feldkamp has carried off this coveted prize with his Poland China boars.

F's Clansman has a wonderful back, is very smooth, and weighs like lead. Foxy Clansman is long and tall with the best bone and feet you ever saw. These boars mated with a bunch of high-class sows have left a great lot of daughters that are being well-developed and mated with other grand champion prospects. These will be sold in his February bred sow sale. He has had a very fine private trade on boars and had disposed of his entire spring crop but one by the first of the year.

Mr. Feldkamp farms something over a quarter-section of good land; he milks a lot of cows and sells the milk for spending money; his good wife keeps up the household with a beautiful flock of Barred Rocks; she rocks the baby for exercise, but the hogs that win the prizes, they're the ones that foot the bills.

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.

Difficult Churning.—I have a Jersey cow ten years old, which freshened in September and I bred her last month. Now we find it very difficult to churn her cream into butter. She is the only cow we keep. W. S. S., Bridgman, Mich.—Warm cream and cold cream should not be mixed; keep the cream in a warm room for eighteen hours before you churn, stir it every few hours—cool it down to churning temperature (fifty-two to fifty-eight degrees F.) for at least two hours before churning. Keeping the cream in a warmer place might help you to overcome this trouble. The writer has made butter, but he does not pose as an expert.

Blind Staggers.—I have a calf eight months old that is troubled with fits or blind staggers and these attacks last about twenty-four hours. W. W. H., St. Johns, Mich.—Doubtless your calf suffers from indigestion. Keep the bowels open, make him take a walk twice daily, give a dessertspoonful of baking soda, tablespoon of powdered charcoal, and same quantity of epsom salts at a dose twice a day.

Piles.—Two of my shoats have been troubled with piles for the past two weeks. I also have horse that is lame in back or hips, he travels out of line. G. B. V., Paris, Mich.—Dissolve one ounce of acetate of lead in one quart of cold water, apply to piles three times daily. Keep their bowels open. Apply equal parts of turpentine and olive oil to back twice a week. Hand-rub hind quarters twice a day.

Worms—Indigestion.—We have a couple of ewes which are poor and the wool is very thin, but they have few ticks. The rest of my flock are in good condition. C. A. C., Axin, Mich.—Mix equal parts of powdered gentian, baking soda, powdered red cinchona and salt together, give each sheep a quarter of a teaspoon twice a day.

Corneal Opacity.—I bought some ewes a short time ago, two of them are blind, the eye is covered with a white film and I might add that several of my other sheep drip water from their eyes. Is this eye disease contagious? W. O. B., Martin, Mich.—I am inclined to believe you may have an infectious ophthalmia in your flock. Try blowing some calomel into eyes of blind sheep. This treatment might clear the eyeball. Be sure to treat them daily. Keep the diseased ones by themselves until well. This treatment when applied early, will generally clear eye of opacity. Wash the eyes of your other sheep with boric acid lotion—a dessertspoonful to each pint of clean water.

Eczema.—My cats have some kind of skin disease, causing itching, patches of hair shed out, moisture comes in sore spots. Mrs. H. K., Butterfield, Mich.—Apply one part chinosol and 500 parts water three times a day. Give cat one drop of Fowler's solution at a dose three times a day.

BROOKWATER DUROC JERSEYS

Ready for Service Boars

Sired by Panama Special 55th and Big Bone Giant Sensation.

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

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

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

DUROC-JERSEYS

CAREY U. EDMONDS, Hastings, Mich.

Durocs Early Fall both sex, prolific, big bone, good breeding, satisfaction or money back. Write your wants. B. E. KIES, Hillsdale, Mich.

BIG TYPE CHESTER WHITES

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

CHESTER WHITES

Boars all sold. Bred sow sale March 8th. FRED L. BODIMER, Reese, Mich.

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

CHESTER WHITE Bred sows and gilts, fall gilts O.O.D. ALBERT DORE, Olaton, Mich.

O.I.C.'s Spring pigs. Pairs not akin. Also July, August, and Sept. pigs. MLO H. PETERSON, Elmhurst Farm, Ionia, Mich. City Phone

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

O. I. C. GILTS bred for April farrow at reasonable prices. C. J. THOMPSON, Rockford, Mich.

O.I.C.'s 10 sows bred for early spring litters. 17 Extra good boar. Stock shipped on approval. FRED W. KENNEDY, R. 2, Plymouth, Mich.

O. I. C.'s 20 last spring gilts bred to farrow in recorded free. 1/4 mile west of Depot, Utz's phone. OTTO B. SCHULZE, Nashville, Mich.

O. I. C. GILTS bred for March and April farrow. H. W. MANN, Dansville, Mich.

O. I. C. Bred gilts and boars all sold. Am taking orders for fall and spring pigs. A. J. BARKER & SON, Belmont, Mich.

O.I.C. & Chester White Strictly Big Type with quality. Few choice gilts bred for spring farrow. Bred to Lengthy Monster. One of the best boars we ever owned. Newman's Stock Farm, Mariette, Mich.

Spring Boars Now Ready To Ship

H. O. SWARTZ, Schoolcraft, 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, Heifers and Cows that are show winners. Write or call. E. A. CLARK, R. 3, St. Louis, Mich.

LARGE TYPE P. C.

As good as they grow. Fall pigs either sex. Bred sows for sale by the Wolverine, M. & W's Orange, P's Clansman, Alaska and Black Buster, Cholera immune. Sale February 21st. N. F. BORNOR, Parma, Mich.

L. T. P. C.

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

Francisco Farm Poland Chinas

Spring gilts sired by a grandson of National Grand Champion Sow and bred to a grandson of National Grand Champion boar. Now ready to ship. F. P. POPE, Mt. Pleasant, Mich.

Large Type P. C. Largest in Mich.

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

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

Boars at Half Price From Mich. Pioneer herd we have been breeding them big type Poland Chinas. Our hogs represent the blood lines of Giant Buster, The Clansman, Liberator, The Yankee, Big Bob, etc. Write for what you want. JNO. C. BUTLER, Portland, Mich.

Big Type P. C. some very choice boars double limb, 100 lb. size and mammoth sows from Iowa's greatest herds. E. J. Mathewson, Burr Oak, Mich.

BIG TYPE POLANDS

spring boars all sold, fall pigs either sex at farmers' prices. Tuscola Clansman is our young herd sire, first prize pig at Mich. State Fair. Litter from him will improve your herd. Public sale Feb. 1. Write today for catalog. DORIS ROVER, Akron, Mich.

L.T.P.C. Gilts bred or open, two good boars and will again. Write for my plan of selling. M. M. PATRICK, Gd. Ledge, 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.

Big Type Poland Chinas

G. A. BAUMGARDNER, R. 2, Middleville, Mich.

Additional Stock Ads. on Page 127

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	\$.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

TO INTRODUCE our old mellow and sweet flavored Kentucky Smoking and Chewing Tobacco, we will sell you 10 lbs. very best 3-year-old mild smoking for \$1.65; 10 lbs. very best Burley and Green River mixed for \$2.00; 10 lbs. very best 3-year-old chewing for \$3.25. A genuine \$1.00 French Briar pipe Free with every order. Satisfaction guaranteed. Send no money. Pay for tobacco and postage on delivery. Kentucky Tobacco Co., Box 622, Owensboro, Ky.

HEMSTITCHING, PICKING AND SHIRTING—All done with our one attachment. Fits any machine. Easily adjusted. No electric or other extra power needed to run same. Samples of work and full instructions sent with each attachment. Price \$2.50. Oriental Novelty Co., Box 11, Corpus Christi, Texas.

SILVER FOXES. We are making very special prices on nineteen twenty-two pups if bargained for now. Our stock is very best quality, all pedigreed and registered. Victory foxes are Good foxes. Buy now, pay later, save one-third. Volman & Hughes, Muskegon, Michigan.

STRAWBERRIES—Progressive Everbearing, bear all summer. Good healthy plants. Never a failure. We have same customers order 3 years. 75c per hundred prepaid. Frank Rich, Allegan, Mich., State Road.

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

HOMESPUN TOBACCO. Smoking—5 lbs., \$1.25; 10 lbs., \$2.00; 20 lbs., \$3.50. Chewing—5 lbs., \$1.75; 10 lbs., \$3.00. Furnish free recipe for preparing. Send no money. Pay when received. O'Connor Smokehouse, Mayfield, Ky.

HOMESPUN SMOKING TOBACCO. Mild and mellow—10 lbs. \$1.75; 20 lbs. \$3.00; delivery guaranteed. We furnish free recipe for preparing. Smoking Tobacco Exchange, Sedalia, Kentucky.

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

INOULATE your Alfalfa, Sweet Clover, Soy beans with best pure culture bacteria. Guaranteed. Bushel size postpaid 90c. E. E. Basil Sweet Clover Grower, Latty, Ohio.

COAL BURNING BROODER STOVES—Real ones; none better. They'll save your hatch. Guaranteed. 30 days trial. Prices way down. Folder free. Geo. Wettschurack, Lafayette, Ind.

GLADIOLI DAHLIA BULBS. Choice named varieties. Postpaid. 20c dozen up. Catalogue Free. Reno East, North Adam, Michigan.

DOGS

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

POULTRY

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

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

MANY VARIETIES pure bred poultry, baby chicks and pigeons at low prices. 100 page book in colors describes them. Mailed for 5 cents. Frank Fox, Box 9, Clinton, Iowa.

SILVER LACED and White Wyandotte Cockerels, \$3.00, two for \$5.00. Extra choice, \$5.00 each. Satisfaction Guaranteed. C. W. Browning, R. 2, Portland, Mich.

HATCHING EGGS WANTED. We can use your output in any of the old breeds such as Houdans, Polish, Cornish, W. Minoras. Write us at once. Chick Hatchery, Dept. 6, Shelbyville, Ill.

WALKER'S R. C. REDS—State cup winners. Breeding cockerels \$3.00 to \$10.00. Pullets \$2.50 to \$5.00. Some good hens 2 for \$5.00. Red Acres Poultry Farm, Battle Creek, Mich., R. No. 6, Box 195B.

BARRED PLYMOUTH ROCKS for sale, stock and eggs at reasonable prices. Fair View Poultry Farm, R. No. 3, Box B, Hastings, Mich.

RHODE ISLAND REDS—R. C. Large fancy cockerels and pullets at \$5 each. Burt Sisson, Inlay City, Mich.

S. C. BUFF LEGHORN. "Those real egg machines". Order your chicks now from those wonderful layers. John J. Bouwens, R. 2, Zeeland, Mich.

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

MAMMOTH PEKIN DUCKS, winners at the leading fairs. Eggs \$1.50 per set. Ducklings 30c each. S. Konezal, R. R. 2, Romeo, Mich.

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

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

GIANT BRONZE TURKEYS Large Type. Ward A. Strach, Corunna, Mich.

FINE LARGE Bourbon Red Turkeys. Archie D. Ives, R. 3, Rockford, Mich.

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

FOR TOULOUSE GEESSE try M. B. NOBLE, Saline, Mich.

TURKEYS. White Holland, extra egg strain. Archie Bennett, Rockford, Mich.

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.

BARRED ROCK CHIX—From my stock that won Mich. merit test, 1921, 264 and 258 egg hens. Won champion sweepstakes and all possible firsts but one, in greatest production class of rocks ever cooped. Grand Rapids, Jan., 1923. Get my price list today. It costs you nothing. L. W. Aseltine, R. 1, Grand Rapids, Mich.

BABY CHICKS—S. C. White and Brown Leghorns, Buff Orpingtons, Bar and Plymouth Rocks, S. C. and R. C. Reds, White Wyandottes and Anconas. Free range on separate farms. \$15.00 per 100 up. Write for prices. P. W. Stone Hatchery, P. M. Willis, Gen. Mgr., Fenton, Mich., Lock Box 44.

CUSTOM HATCHING. four cents per egg. Ship us your eggs, chicks hatched and returned parcel post prepaid. Satisfactory hatch guaranteed. Now contracting space for spring hatching. Akron Hatchery, Akron, Mich.

WHITE LEGHORN CHICKS from pedigreed cockerels direct from Hollywood Farms, every breeder personally selected by Prof. Foreman of M. A. C. Quantity limited. Quality the very best. Circular free. Maple Haven Farm, R. 5, Jackson, Mich.

S. C. W. LEGHORN chicks and famous Sheppard Anconas. Leghorn foundation stock from M. A. C. with egg records up to 279. Write for Catalogue. Byron Center Poultry Farm, G. C. Keizer, Byron Center, Mich.

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

BABY CHICKS—Barred Plymouth Rocks and S. C. White Leghorns. Send for catalogue. Snowflake Poultry Farm and Hatchery, Route 5, Middleville, Michigan.

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

CHICKS—English strain S. C. White Leghorns that lay and pay. Order early. Write for free catalogue and price list. Honorable Farm & Hatchery, 145 S. Elm St., Zeeland, Mich.

BABY CHICKS from heavy egg producing strain. Barren and young 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, Minoras, Spanish, Brahmas. Tyrone Poultry Farm, Fenton, Mich.

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

QUALITY CHICKS for delivery each week after March 1st. S. C. White and Brown Leghorns. 100% live delivery. Catalog free. Standard Hatchery, Box B, Zeeland, Mich.

STERLING QUALITY CHICKS from 14 Varieties. Pure Bred Certified Stock. Prices Right. P. F. Clardy, Mammoth Hatchery, Highland View Poultry Farm, Box 6, Ethel, Mo.

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

CHICKS: Low prices for pure bred stock. S. C. English Whites, Browns, Anconas and Barred Rocks Catalogue free. Free delivery. Bos. Hatchery, Zeeland, R. 2, Mich. (Formerly Fairview Hatchery).

CHICKS. From free range selected flocks bred to lay. All popular varieties. Prices right. Send for catalogue. 100% delivery guaranteed. Homer Hatchery, Homer, Michigan.

25,000 PUREBRED chicks weekly. Lowest prices, live delivery guaranteed. Catalog free. Lindstrom Hatchery, Clinton, Mo.

1,000,000 PUREBRED CHICKS—Get our 20 page catalog before ordering. Rex Poultry Co., Clinton, Missouri.

HELP WANTED

WANTED—Experienced farmer to run a Monroe County stock farm for Detroit man. Must have had experience with pure bred live stock and general farming. First letter must have complete information as to experience, size of family, salary expected and when at liberty to go to work. Apply Box B-14, Michigan Farmer.

WANTED—Reliable man on 150 acre farm, 30 miles from Detroit. Must be capable of taking charge and going ahead with work as owner is away all day. Six registered Holsteins and three horses to take care of. Can use single man or married man if wife will assist with housework. All year round job. State wages wanted and experience. E. S. VanDalsen, Salem, Mich.

WE PAY \$200 monthly salary and furnish rig and expenses to introduce our guaranteed poultry and stock powders. Bigler Company, X 683, Springfield, Illinois.

WIDOWER, 40, farmer, 4 children, desires house-keeper. For further particulars write E. G. Ball, Alba, Mich.

WANTED—Married man for farm by year for milking and general farm work. State wages and full particulars. Give reference. E. J. Hard, Gagetown, Mich.

LATEST MARKET REPORTS

GRAIN QUOTATIONS

Tuesday, January 23.

Wheat.

Detroit.—No. 2 red \$1.34; No. 2 mixed \$1.33; No. 2 white \$1.33.
Chicago.—No. 2 hard \$1.15½@1.16; May \$1.16½.
Toledo.—Cash \$1.34½@1.36½.

Corn.

Detroit.—Cash No. 2 at 77c; No. 3 yellow 76c.
Chicago.—No. 2 mixed 69½c; No. 2 yellow 69¾@70c.

Oats.

Detroit.—Cash No. 2 white 50c; No. 3, 48½c.
Chicago.—No. 2 white at 43¼@44c; No. 3 white 42½@42¾c.

Beans.

Detroit.—Immediate and prompt shipment \$7.90.
Chicago.—Choice hand-picked Michigan beans \$8.10@8.15; red kidneys at \$8.25.
New York.—Choice pea \$8.50; red kidneys \$8.25@8.50.

Rye.

Detroit.—Cash No. 2, 90c.
Chicago.—86c.
Toledo.—Cash at 92c.

Seeds.

Detroit.—Prime red clover cash at \$13.20; March \$13.35; alsike at \$10.65; timothy \$3.30.
Toledo.—Prime red clover cash at \$13.50; alsike \$10.70; timothy, new at \$3.30; old \$3.35.

Hay.

Detroit.—No. 1 timothy \$16.50@17; standard \$16@16.50; light mixed \$16@16.50; No. 2 timothy \$14@15; No. 1 clover \$14.50@15; rye straw \$11.50@12; wheat and oat straw \$11@11.50 per ton in carlots.

Feeds.

Bran \$36@36.50; standard middlings \$35@35.50; fine do at \$36@37; cracked corn \$35@35.50; coarse cornmeal at \$34; chop \$29.50 per ton in 100-pound sacks.

Fruit.

Apples.—Jonathans \$4.50 per bbl; Kings at \$5@5.25; Northern Spies at \$4@6; Baldwins \$4.50@5; Greenings \$4.25@4.50; Wageners \$4.

WHEAT

The pendulum of wheat prices has swung over a relatively small area in the last three weeks, and it is at about the same point as on the opening day of the year. Usually such a performance is followed by a rise rather than a fall in prices. Whether the rule will hold good this time depends on the extent to which the market has been artificially supported on the declines.

CORN

The corn market has become less brisk as both domestic and export demand have fallen off. While prices which importing sections are offering in the corn belt are higher in many cases than those at terminals, receipts at the latter remain slightly above normal for this season of the year. Chicago particularly has accumulated a rather large stock in the last six weeks and the visible supply is larger than usual.

OATS

The oats market takes much of its color from the other grains but consumptive demand appears to be keen so that comparatively heavy receipts are being absorbed without any special weakness.

Germany bought some rye last week in spite of her political situation and sales to her in the last month range as high as 10,000,000 bushels.

FEEDS

Feed markets have strengthened in the last week with bran at the season's high mark although the demand from consumers is inactive, interior dealers are fairly well stocked up and wheat feeds are piling up at milling centers. Moderate winter temperatures as a factor in consumption are a partial offset to the increase in numbers of animals on feed.

HAY

Larger receipts of poor hay have weakened markets generally although

price declines were small. Nearly three-fourths of the surplus of alfalfa in producing districts has been sold. The crop in the southwest was smaller than last year and only about half of the surplus has been marketed according to surveys made by the department of agriculture.

BUTTER

All past records in the butter market for this time of year have been broken by receipts since the first of January. The previous high point was in January, 1922, but this year's total shows a gain of about twelve per cent. The market weakened recently under the heavy supply but some firmness as the rate of disappearance into consumption shows no diminution and in spite of increased receipts storage reserves at the four markets have declined nearly one-third since the first of the year. It is still possible that a pronounced shortage of butter may develop before the flush period starts. Prices on 92-score fresh butter were as follows: Chicago 50½c; New York 52c. In Detroit fresh creamery in tubs sells for 48½@49c.

POULTRY AND EGGS

Egg prices developed more stability last week as the recent drop has stimulated consumption, turned some buyers from storage to fresh eggs and probably discounted the increase in production for the present. Eggs for April delivery are quoted at about the same level as last year. Dressed poultry is still piling up in storage but stocks in recent years have reached their high point by the third or fourth week in January. Prices are holding well as consumptive demand is keen. Chicago.—Eggs, miscellaneous 33@34c; dirties 26@28c; checks 24@25c; fresh firsts 34@34½c; ordinary firsts 30@32c.

Live poultry, hens 23c; springers at red. Elsewhere the market was un-18c; roosters 14c; ducks 18c; geese changed. 15c; turkeys 35c.

Detroit.—Eggs, fresh candled and graded 37@38c; storage 25@27c.

POTATOES

Potato prices were steady to firm last week. Shipments have been a little lighter but are slightly above normal for this season of the year. As a result of low prices the prospective acreage of early potatoes in the south is said to be much smaller than last year. Northern round whites are now quoted at 80@95c per 100 pounds at Chicago and \$1.05@1.25 in other lead-

BEANS

The bean market declined last week with choice hand-picked whites quoted at the close at \$8 per 100 lbs. f. o. b. Michigan shipping points. Red kidneys were unchanged at \$8.25. While producers are not selling many beans, and the demand has been exceptionally light, no effort is being made by holders to push sales at the lower price and a recovery seems likely.

GRAND RAPIDS

Tone of the egg market in Grand Rapids was unsettled early this week with a decline in prospect before Saturday, according to leading produce dealers. Prices were out of line with Chicago and buyers said they were planning to slice bids just as soon as a small surplus began to accumulate. Early this week Grand Rapids was paying 36@37c per dozen, or 2@3c a dozen more for eggs than Chicago. Bids on heavy fowls eased under pressure of heavy receipts, 18@19c per pound, live weight, being the average prices. Beans were a dime lower, mostly \$6.50@6.75 per cwt. Wheat was higher at \$1.24 per bushel for No. 1

Live Stock Market Service

Wednesday, January 24.

DETROIT

Cattle.

Receipts 360. Market is very slow, with canners and bulls steady; all others 50c lower than last week's close.
Best steers \$ 8.50 @ 8.75
Handyweight butchers .. 7.50 @ 8.00
Mixed steers and heifers 6.50 @ 7.00
Handy light butchers.... 6.00 @ 6.50
Light butchers 4.50 @ 5.00
Best cows 5.00 @ 5.50
Butcher cows 4.00 @ 4.50
Common cows 3.00 @ 3.50
Canners 2.25 @ 3.00
Choice bulls 5.00 @ 5.75
Bologna bulls 4.50 @ 5.25
Stock bulls 3.50 @ 4.25
Stockers 4.50 @ 6.00
Feeders 6.00 @ 6.50
Milkers and springers... \$ 40 @ 80.00

Veal Calves.

Receipts 510. Market strong.
Best \$15.00 @ 15.50
Others 7.00 @ 14.00

Sheep and Lambs.

Receipts 2,110. Sheep strong; lambs very slow but 25c higher.
Best lambs \$ 15.00
Fair lambs 12.50 @ 13.25
Light to common 9.00 @ 11.25
Fair to good sheep 6.50 @ 8.00
Culls and common 2.00 @ 4.00
Yearlings 10.00 @ 12.75

Hogs.

Receipts 2,100. Market 10c lower.
Mixed hogs \$ 8.80
Pigs and light weights... 9.15 @ 9.25
Roughs 7.00
Stags 4.50 @ 5.00

CHICAGO

Hogs.

Estimated receipts today are 25,000; holdover 17,811. Market slow and 15 @ 20c lower. Bulk of sales at \$7.90@8.35; tops \$8.55 early; heavy 250 lbs up \$8.05@8.25; medium 200 to 250 lbs \$8.15@8.35; light 150 to 200 lbs \$8.25@8.50; light lights 130 to 150 lbs \$8.25@8.50; heavy packing sows 250 lbs up \$7.20@7.50; packing sows 200 lbs up \$6.90@7.25; pigs 130 lbs down \$7.75@8.35.

Cattle.

Estimated receipts today are 9,000. Market slow; killing classes steady to

weak; veal calves strong to 25c higher. Beef steers medium and heavy weight 1100 lbs up \$11.25@12.50; do medium and good at \$8.50@11.25; do common \$6.50@8.15; light weight 1100 lbs down \$9.65@12; do common and medium at \$6.25@9.65; butcher cattle heifers \$4.90@10.50; cows \$3.75@8; bulls bologna and beef at \$4.50@6.50; canners and cutters cows and heifers \$2.75@3.85; do canner steers \$3.50@4.75; veal calves light and handy weight at \$8.75@12.25; feeder steers common \$6.35@8.25; stocker steers at \$4.65@8; stocker cows and heifers at \$3.25@5.25.

Sheep and Lambs.

Estimated receipts today are 18,000. Market slow and generally steady to lower. Lambs 84 lbs down \$15.25@15.50; do culls and common at \$9.50@13.25; spring lambs \$9.50@13.50; ewes \$5@6.35; ewes cull and common \$3.50@6; yearling wethers \$12.75@14.85.

BUFFALO

Cattle.

Receipts five cars. Market is slow. Choice to prime shipping steers 1,400 lbs and up \$9.50@10; good to choice shipping steers \$8.50@9; heavy fat, medium quality \$8@8.25; medium to good \$7.50@8; light native yearlings, fancy quality \$9.50@10; medium to good \$8@8.50; best handy steers \$7@8; plain at \$7@7.25; handy steers and heifers \$6@7; western heifers at \$6.75@7.25; light Michigan butchering heifers \$6.50@7; best fat cows \$5.75@6; medium to good \$4.50@5.50; cutters \$3.25@4.25; canners good weight \$2.25@2.50; common and old rims \$1@1.50; best heavy bulls \$5.50@6; heavy bologna bulls \$4.75@5.25; common bulls \$4@4.50; best feeders 700 to 800 lbs \$6.50@7.25; medium feeders \$6@6.50; stockers, good \$5.50@6; light common \$4@5; best milkers and springers \$60@80; common and medium \$35@45. Calves, tops \$16.

Hogs.

Receipts 30 cars. Market is lower. Medium and heavy \$9.15@9.30; yorkers and pigs \$9.50@9.70.

Sheep and Lambs.

Receipts five cars. Market steady. Top lambs \$15.25; yearlings \$12@13; wethers \$9@9.50; ewes \$7@8.50.

COMING LIVE STOCK SALES.

Shorthorns.

Feb. 2.—Michigan Shorthorn Breeders' Association, East Lansing.

Chester Whites.

March 8.—Alexander & Bodimer, Vassar.

Poland Chinas.

Feb. 1.—Doris Hover, Akron.
Feb. 16.—E. J. Mathewson, Burr Oak.
Feb. 17.—Witt Bros., Adrian.
Feb. 21.—C. O. Goodrich, Plymouth, Indiana.

Feb. 21.—N. Fay Borner, Parma.
Feb. 22.—A. A. Feldkamp, Manchester.
Feb. 27.—J. E. Mygants, St. Johns.
Feb. 28.—Chas. Wetzel & Sons, Ithaca.
March 1.—Archie Ward, Breckenridge.
March 22.—Sonley Bros., St. Louis.

Duroc-Jerseys.

Feb. 6.—Frank Borgert, Sturgis.
Feb. 8.—St. Joe County Duroc Association, Centerville.
Feb. 9.—J. C. Barney, Coldwater.

Spotted Poland Chinas.

Feb. 14.—G. C. Coffman, Coldwater.
March 2.—C. Watson, Breckenridge.

Poland Chinas, Shorthorns, Percherons and Sheep.

Feb. 6.—J. M. Hicks & Sons, Williamson.

HINMAN MILKER

The first successful milker made by the oldest milker manufacturer.

Fifteen years of success attained through a combination of simplicity, perfect milking and durability.

Simplicity has meant easy cleaning, few repairs and clean milk. Hinman Valve Chambers are guaranteed for life with free service. Such a liberal guarantee shows Hinman reliability.

Send today for Catalog and Hinman low prices.

Hinman Milking Machine Co.
Sixth Street
ONEIDA, N. Y.

GROW THE NEW MAMMOTH

The big, healthy, vigorous strawberry without a fault. Gives lasting satisfaction. Nets many of our customers \$1500.00 an acre. Beautiful color, and a flavor you can't forget. 17 to 35 fill a quart. Resists drought. Bears early and late. Many growers will discard all other kinds. We also save you money on the most thrifty and profitable varieties of Strawberry, Grape, Raspberry, Blackberry and Dewberry plants. Grow in the famous Michigan Fruit Belt. Packed to reach you fresh and vigorous. We ship direct to you at wholesale prices. Special rates if you order now. Our liberal guarantee and long experience protect you. Prepare now, and you will reap big profits next year from the growing demand for good berries. Our valuable catalog, with color illustrations, tells the whole story. Write for your copy tonight.

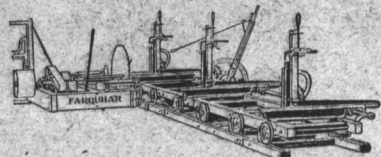
Stevensville Nurseries, Box 58, Stevensville, Mich.

For More Berry Money

STRAWBERRY PLANTS

\$3.50 Per Thousand, and up. Our strong, healthy, tremendous bearing plants guarantee big crops of luscious berries. Best varieties for all kinds of soils. Many new varieties such as Eaton, Bun Special, Premier, Marvel, and Cooper. The world's greatest new Everbearing Strawberry CHAMPION. Full line of Raspberries, Blackberries and Apples. Greatly Reduced Prices. Our customers are making up to \$1200.00 per acre from small fruits. Large stock of good at \$35.00 per thousand. Beautiful new color catalog free. Write Today BRIDGMAN NURSERY CO., Box 25, Bridgman, Michigan

ACCURATE RAPID SAWING



Farquhar Portable Sawmills are built for accuracy and service. The Double Belt Feed assures fast sawing. The carriage is controlled in both forward and backward movement by a small single upright lever. The speed of the carriage can be varied by the operator's pressure on this lever. Purchasers have the choice of either the Standard carrier which is designed for short, heavy logs or the Log Beam carrier, which is especially adapted for long, small diameter logs that need a beam or bed to rest on.

Farquhar Portable Sawmills are made in 5 sizes to meet all needs. They vary from the 6-A or Pony type for sawing small logs, to the 2-A which is suitable for saws up to sixty inches in diameter. All types are made with right or left hand carriages.

Farquhar Portable Sawmills are strongly and dependably built. They last a life-time.

Write for information. We will gladly help you with your lumber problems.

A. B. FARQUHAR CO., Limited
Box 4.2, York, Pa.

Also manufacturers of Engines, Steam Boilers, Threshers, Hydraulic Cider Presses and Farm Implements.
Write for catalog

Corrugated Metal ROOFING

Think of it. We can now sell Excell Metal Roofing, 28 gauge corrugated at only \$3.10 per 100 sq. ft. painted. Galvanized, only \$4.50. If you have been waiting for metal roofing prices to come down, here they are—direct from factory prices—lower than you can get anywhere else. Send for our New Catalog covering all styles Metal Roofing, Siding, Shingles, Ridging, Ceiling, etc., will save you money.

PREPARED ROOFING ONLY \$1.05
Don't buy Roofing, Paints, Fencing, Gas Engines, Tires—anything you need until you get our latest catalog. You can see and try our roofing before you pay. All sold on money back guarantee. Write for Money Saving Catalog today.

The United Factories Co., 304 Marion Bldg., Cleveland, Ohio

HOGS

Large Type Poland China BRED SOW SALE

FEBRUARY 22, 1923

Write for Catalogue

A. A. FELDKAMP, Manchester, Mich.

For Sale—Choice Poland China fall boar pigs by Emancipator 2nd, dam by Cheekers also can spare a few bred sows and gilts from herd.

WESLEY HILL, Ionia, Mich.

B. T. P. C. gilts sired by Big Bob son of World Cham pion and Peter Pan, he sold \$1,075 cash, also fall pigs. **C. E. GARNANT,** Eaton Rapids, Mich.

Hampshires spring boars and bred gilts from 25 sows to select from. Place your order now or you may be too late. 19th year.

JOHN W. SNYDER, R. 4, St. Johns, Mich.

Hampshire Bred gilts \$20, \$25; bred sows \$30. 12.1923. Write for catalogue.

C. F. LUCKHARD, Bach, Mich.

Lone Maple Farm Big Type Poland Chinas. Nothing for sale at present.

F. R. DAVIS & SON, Belding, Mich.

Bred Sow Sale 45 head Duroc Jerseys, Feb. 12, 1923. Write for catalogue.

L. A. BURHANS, W. L. Lyons, Mich.

Duroc Sow Sale

St. Jo. Co. Duroc-Jersey Breeder's Ass'n.

CENTERVILLE, FEB. 3, P. M.

25 choice bred sows at Auction. Sensation-Cherry King breeding. Write for catalogue to **J. W. FLETCHER,** Centerville, Mich. Wm. Waffle, Auc.

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.

Large Type Poland China Gilts sired by Mich. Liberator, & Big Checkers, Bred to model Giant and Mich. Liberator 2d. for March & April farrow. **George F. Aldrich,** R. 6 Ionia, Mich.

Hampshires Big, Right type & stripe. To market 5-6 mo's. Bred sows & gilts. G. Immured, Sept. pigs not akin. Get our prices. **E. E. Cribbs,** Three Rivers, Mich.

SHEEP

800 BRED EWES FOR SALE

In lots of 50 or more, black faced, from 1 to 4 yrs old; no broken mouths, in good condition, bred to Shropshire and Oxford rams to lamb May first. Located 22 miles S.W. of Detroit on Detroit and Toledo electric and Dixie Highway. Telegraph address, Rockwood.

Almond B. Chapman, So. Rockwood, Mich.

SALES ARE GOOD.

WE notice Pangborn's report in your recent issues of selling nine bulls of the Shorthorn type through the Michigan Farmer. This speaks well for our paper and the greatest of all states, "Michigan." We can give the Michigan Farmer credit for selling the Airdrie Duchess bull to Kameroushi Ranch, Scottville, Mich., a pure Duchess bull to Verritt & Peterson, of Custer, Mich.; a Barrington Pride to Wilson Miller, Custer, Mich.; an Airdrie Duchess bull to Anderson Bros., Weldon, Mich.; a "Greenleaf" bull to Dr. Birtram, Sipsey Farms, Bitely Mich., and a choice bred bull to Jas. L. Seavers, Montague, Mich. Mr. Duncan Becker, of Hesperia, Mich., secured the great bull "Peris Sentinel," we sold the choice bred bull, "Greenleaf Renowan," to Osceola County Farm, Sears, Mich. Mr. R. R. Scott secured "Peris Pioneer." Mr. Scott, of Hubbard Lake, is a lumberman from Minnesota, who has settled on some of our northern Michigan rich cut-over lands and who expects to build up a pure-bred herd of milking Shorthorns.

We have received large prices, but when we consider inquiries from other states, Michigan, as an average, is better off financially. Our 1922 sales amounted to \$2,200 for the bulls. Some sold high and some cheap.—W. Johnson & Sons, Custer, Michigan.

FARM PRICES SHOW BIGGEST GAINS.

WHOLESALE price index numbers as compiled by the United States Bureau of Labor Statistics, show that the farm products group advanced more than any other division during 1922 and nearly twice as much as the average for all commodities. While such index numbers are not a perfect barometer, they unquestionably show that the farmer's purchasing power in terms of what he can obtain in exchange for his own products has gained decidedly during the year. The advance of practically twenty-one per cent in farm products as recorded in this manner in pre-war times, would have been considered phenomenal. It is likewise significant that farm prices in December, 1922, were only 7.6 per cent below the general average for all commodities, whereas a year ago they were 16.7 per cent below the "all commodity" index number.

Index numbers of wholesale prices for December 1921, and December, 1922, together with the percentage of increase in each group during the year are given in the table below. Prices in the year 1913 are taken as 100.

	Dec. 1921.	Dec. 1922.	% Inc.
All commodities	140	156	11.1
Farm products	120	145	20.8
Food products	136	144	5.9
Cloths and clothing	180	194	7.8
Fuel and lighting	199	216	8.5
Metal products	113	131	16.1
Building materials	158	185	17.1
Chemicals and drugs	127	130	2.4
House furnishings	178	182	2.3
Miscellaneous	121	122	.8

Kope-Kon Farms

Offers the best in yearling Shropshires of course. Also choice of the best lot of Ram Lambs you will see this year. Follow M 29.

S. L. Wing, Coldwater, Mich.

50 Head High Class, bred, Registered to 4 yrs. old. Large, well covered. Flock established 1890. **C. Lemen & Sons, Dexter, Mich.**

Reg. Delaine ewes and ewe lambs for sale.

CALHOON BROS., Bronson, Mich.

POULTRY

Baby Chicks for 1923

From our high producing English American S. C. White Leghorns. From 910 pullets we averaged 178½ eggs per bird for the year. Be sure and get some of our chicks for 1923 from our high record hens. Send for price list. **LAROS POULTRY FARM,** Hart, Mich.

BABY CHICKS

White English Leghorns, Tom Barron strain; White and Barred Plymouth Rocks; S. C. R. I. Reds; Buff Orpingtons. All pure bred from selected stock. Live arrival guaranteed, postage paid. We do custom hatching. **Durand Hatchery, Fenton, Mich.**

BRED-TO-LAY CHICKS

S. C. WHITE LEGHORNS, English and American strains. Strong vigorous fellows that will develop into fine winter layers. 10% discount on all orders received before Feb. 15th. Write today for circular. **CUMINGS WHITE LEGHORN FARM,** Box R. Otter Lake, Mich.

SHORTHORN SHOW and SALE Michigan Shorthorn Breeders Association

AT

M. A. C. East Lansing, Michigan

Friday, February 2, 1923

Show 9:00 A. M.

Sale 1:00 P. M.

30 Females

11 Bulls

Consignors

John Lessiters' Sons,
H. B. Peters and Son,
McLachlan Brothers,
L. P. Otto,
L. C. Kelly,
W. B. Kelly,
Mich. Agr'l. College,
P. P. Pope,
Robert Booth,
F. S. Postal,
O. Hampton and Son,
Bedell and Wheatlake,
R. W. Weinberg,
H. E. Hartwell,

Clarkston, Michigan
Carland, "
Evart, "
Charlotte, "
Plymouth, "
Ypsilanti, "
East Lansing, "
Mt. Pleasant, "
Owosso, "
Evart, "
Leslie, "
Big Rapids, "
Vicksburg, "
Williamston, "

Every animal guaranteed. Tuberculin tested and sold subject to 60 days' retest.

If you want good Shorthorns with fancy pedigrees.

DO NOT MISS THIS OPPORTUNITY

Now is the time to buy.

Auctioneers: Hutton & Adams

Write for Catalogue

W. E. J. Edwards, Sec't.

East Lansing, Michigan

AUCTION SALE

Tues. Feb. 6 Starts at 12:00 Sharp

To Dispose of our surplus breeding stock will sell at Andrews Feed Barn, Williamston.

60—REG. POLAND CHINAS—60

18 choice bred sows in best of condition due to farrow in March. 42 fall shoats some nice gilts and boars in this lot.

50 Ewes 50 medium wool breeding ewes, mostly 2 and 3 yr. olds. Bred to Reg. Oxford buck for March lambs.

4 Reg. Scotch Shorthorn Cows 3 to 6 yr's old. 1 red heifer, 1 red bull, 10 mo., old. The cows were bred to Rickland Jupiter 712008, a Prescott bull sired by Imp. Lorne. The calves are sired by Rickland Jupiter. Cows are due now.

5 Percherons. 2 dark grey stallion colts 8 mo. old, 1 black stallion colt 9 mo. old wt. 900. Pair black grade mares 3 and 4 yr. old. Above stock will be sold regardless of price. Terms 2% discount for cash. Bank notes 8 mo. 6%.

J. M. HICKS & SONS

HIGHEST QUALITY CHICKS

Michigan's Old
Reliable Hatchery

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

Pure Bred English and American S. C. W. Leghorns; S. C. Anconas; Barred Plymouth Rocks and R. I. Reds. Strong, well hatched chicks from tested Hoganized free range stock that make wonderful winter layers.

Chicks sent by Insured Parcel Post Prepaid to your door. 100% live delivery guaranteed. Fifteen years of experience in producing and shipping chicks has given absolute satisfaction to thousands. Write for illustrated free catalog and price list. Get lowest price on best quality chicks before you buy.

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

BABY CHICKS

Barred Rocks Hardy free range stock—a Pure Rhode I. Reds Breed Practical Poultry especially adapted to the farmer poultryman; stock that has proved of exceptional practical value on Michigan farms.

PULLETS

A limited number of S. C. White and R. C. Brown Leghorns, White Rocks; also pen of fine Anconas. Write for quotations.

STATE FARMS ASSOCIATION

201 Chase Block, Kalamazoo, Michigan.

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.

Quality Chicks From Certified Stock We breed systematically. We cull scientifically. We incubate carefully. Our Barred Plymouth Rocks, Rhode Island Reds, White Wyandottes and White Leghorns are all backed by the best producing blood lines. The Milan Hatchery, Box 4, Milan, Mich.

S. C. Ancona cockerels hatched from Sheppards very best. Order early \$5.00 each. **H. GEORGE SMITH, R. 2, Rapid City, Mich.**

White Holland Turkeys Tolouse goose. **ALDEN WHITCOMB,** Byron Center, Mich.

"Ringlet" Barred Rock cockerels, extra fine, from prize winners also hatching eggs. **EARL MURPHY,** Britton, Mich.

Real Estate Market

60 Acres Convenient Detroit

4 Cows, Poultry, Season's Crops hay, oats, corn, vegetables, beans, heifer, sow, implements included; near fine college; 50 acres tillage, pasture; fruit; good 2-story 7-room house, barn, stable, poultry house. Owner called away, only \$5300, about 1-3 cash. Page 62 big Illus. Catalog. **STROUT FARM AGENCY, 427KH Marquette Bldg., Chicago.**

FOR SALE—Improved stock and grain farm of 160 acres, all level, some timber. Best of soil, 1½ miles from good railroad town on State Pike. 2½ story house, furnace, toilet, bath. Large bank barn, other buildings, all fenced. Young orchard. Near school. No encumbrance. **A. J. BRENNER, Onaway, Michigan.**

ONE DOLLAR AN ACRE

Let me tell you how to obtain 40 to 640 acres of valuable cut-over farm land in Gladwin county, Mich., at \$1 per acre each year for 4 years without interest, balance 5 year mortgage at 5% interest.

U. G. REYNOLDS, Gladwin, Mich.

Farms in Sunny Southern Jersey Many Bargains. Stocked and Equipped. Some require only \$500 cash. Income producing homes. Copy free. **VINELAND FARM AGENCY, 549 NN Landis Ave., Vineland, N. J.**

FOR SALE—100 acres, seven miles from Hillsdale, Mich., on stone road. Productive land, good buildings, with electric lights. Write for description. **Bernice VanFleet, Reading, Mich.**

MANSFIELD BROTHERS MORTGAGE COMPANY exchanges city property, farms and makes loans. Write for circular. 515-17 Grand Avenue, Temple Building, Kansas City, Mo.

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

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

Wanted to hear from owner of farm for sale Address: Box 101, DeCordova, Mich.

50 Good Farms Write for free list. **DeCordova, Bloomington, Mich.**



Mr. Melotte

has led in the development of the dairy industry as Edison has led in the development of electric light.

Both men started life without any advantages and both have become famous. Mr. Melotte personally has secured more valuable patents relative to the cream separator than all other inventors combined. His inventions range from the marvelous self-balancing bowl down to innumerable details which make the Melotte perfect. As a result the Melotte has for years won practically every Grand International Contest in Europe and elsewhere.

Self-Balancing Bowl

This Belgium Melotte is the only separator made in which the bowl runs on a single bearing. The bowl hangs from a ball bearing. It is self-balancing and spins like a top. It is impossible for it to get out of balance. It runs so perfectly that it continues running for over 25 minutes after you stop turning the crank unless the brake is applied. No other separator needs a brake. It is this absolute balance of the Melotte Bowl that places the Melotte so far ahead of ordinary separators in extracting every drop of cream out of milk.

\$7.50
DOWN

After
30 Days
Free Trial

When—after 30 days' free trial—you are convinced that the Melotte skims cleaner, turns easier, washes quicker, has one-half less tinware to clean, and lasts longer than all others—then—and not until then—pay only \$7.50 as a first payment, and the balance in small monthly payments until the Melotte is paid for—and you will find that it pays for itself from your increased cream checks.

30 Days' Free Trial!

Don't buy any separator until you have tried the Melotte 30 days free on your own farm. Here is a good suggestion. Write to the various manufacturers or their agents, telling them you would like to try one of their separators 30 days on your farm without any obligation on your part to buy it, and that if you find their separator better than any of the others you are going to test, you will be glad to purchase their machine—otherwise you will return it. Remember—you cannot afford to have any other separator than the best. If you dropped a dime, would you pick it up? Of course! In all probability you are losing 10 cents for every ten cows you milk every time you milk them!

Send the Coupon TODAY!

Just send the coupon below, get our catalog giving full description of the wonderful Melotte, together with hundreds of testimonials from American farmers; and learn all the details of our great free trial offer which enables you to prove to yourself just how much money you are losing on your present separator. Send the Coupon TODAY!

MELOTTE SEPARATOR, H. B. BABSON, U. S. Manager
2843 W. 19th St., Dept. 9101, Chicago, Ill. 2445 Prince St. Berkeley, Cal.

Without cost to me or obligation in any way, please send me the Melotte catalog which tells the full story of this wonderful separator and M. Jules Melotte, its inventor, and hundreds of letters from American farmers.

Name _____

Address _____

Post Office _____

State _____

A Continuous Stream

of Melotte Separators is now coming from Belgium. Every steamship brings more! This phenomenal success of the Melotte is due to one thing and that is—Quality! Quality! Quality! The American farmer has learned to appreciate its self-balancing bowl, its sturdy construction, its careful workmanship, its sanitary features—and above all—its wonderful efficiency! That means **WHOLE CREAM!**—at least, an actual saving over the ordinary separator of \$73.00 a year for every ten cows milked.

The Melotte's marvelous quality of workmanship is best shown by the fact that, unless you apply the brake, its self-balancing bowl will actually continue spinning for 25 minutes after you stop turning the crank.

Its ease of turning is proven by our guarantee that a 600-pound Melotte will turn just as easily as a 300-pound separator of any other make. Its wonderful efficiency in getting every drop of cream out of the milk is proven by the 264 International Prizes it has already won. Its durability is proven by our 15-year guarantee.

A Melotte separator will easily last 25 or 30 years, or longer. The first fifty Melotte Separators we sold in the United States have averaged only 20 cents in renewals a year—over a period of 8 years—and most of these renewals were merely rubber gaskets.

Let us prove to you that there is no other separator like the Melotte. We will gladly send you a Melotte for 30 days free trial. Then you can make the famous test which caused 10,000 Belgian farmers to "junk" their old separators and install the Melotte!

Just set up the Melotte beside your present separator. After you have skimmed your milk with the old separator, put the skimmed milk through the Melotte and actually see how much cream it saves you—easily \$6.00 a month for every ten cows you milk. During the 30 days free trial keep track of this cream and if you are not more than pleased with the wonderful workmanship and efficiency of the Melotte—and with its wonderful results!—just return it to us. You are not under the slightest obligation to keep it. Send the coupon below today!

