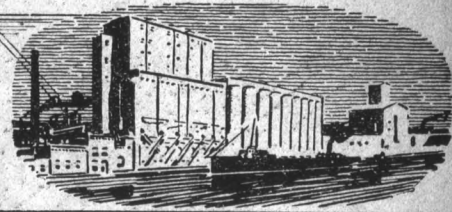


The Michigan BUSINESS FARMER



An Independent
Farm Magazine Owned and
Edited in Michigan



VOL. XII, No. 14

SATURDAY, MARCH 14, 1925

TERMS: TWO YEARS \$1
60c PER YEAR—5 YRS. \$2



MICHIGAN'S BEST

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In this issue: Legislature Delays Vote on M. A. C. Name—Agricultural Products Now on Level With Other Commodities—Tuscola County Test Proves Robust Beans Best—How Bill Bucked the Tiger—and other interesting features

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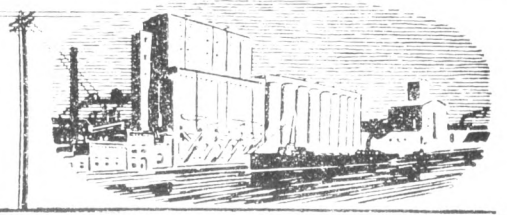
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The Michigan BUSINESS FARMER



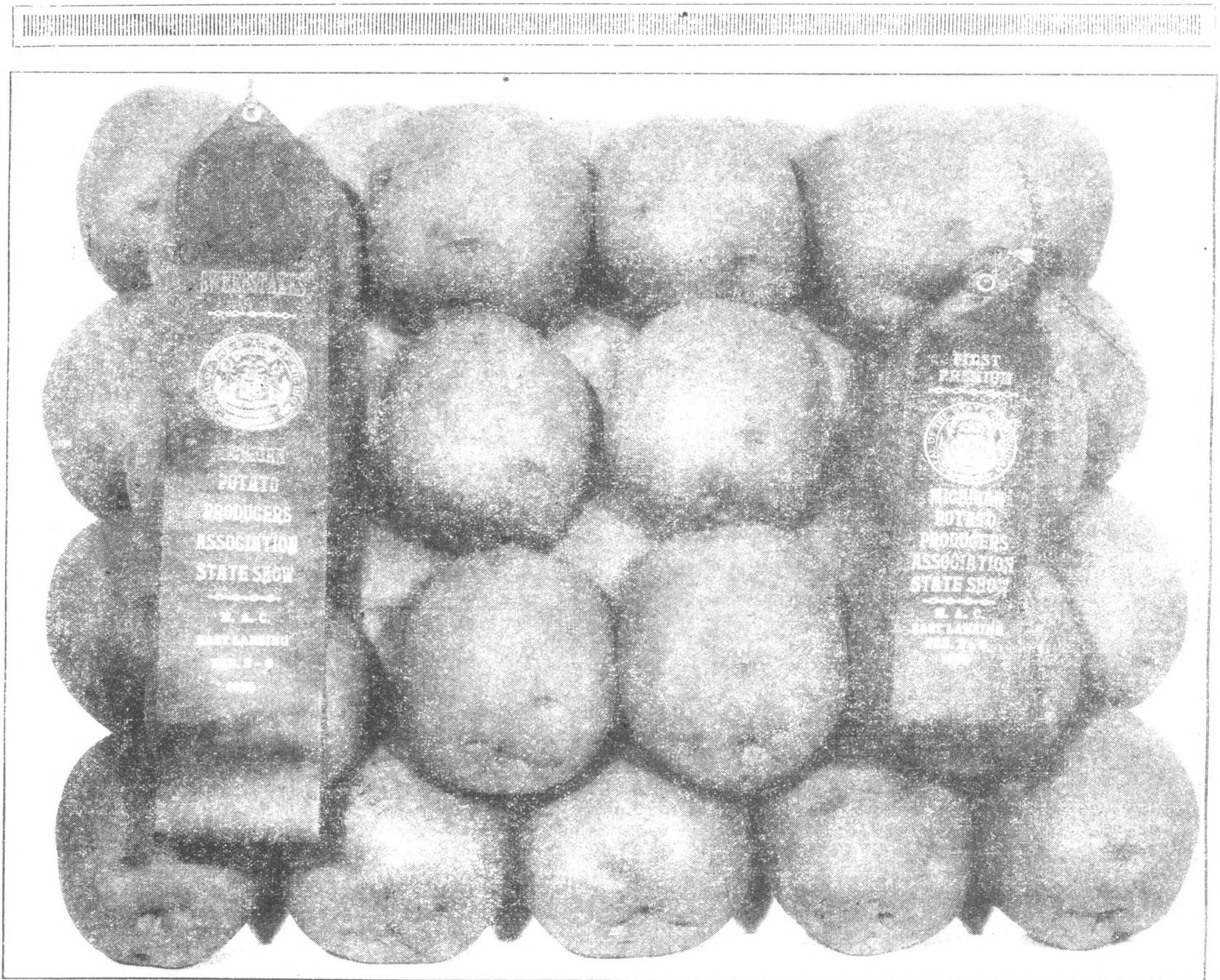
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The Only Farm Magazine Owned and Edited in Michigan

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Legislature Delays Vote On M. A. C. Name

Both Senate and House Pass Bill Turning Over Construction and Maintenance of State
Trunk Line Roads to State Authorities

By STANLEY M. POWELL

(Lansing Correspondent of The Business Farmer.)

WITH farmer members comprising the most numerous occupational group among the 1925 legislators, it is no wonder that they are getting down to business now that there are signs that an early spring will soon be upon us. Committees have been increasingly active and the session has now reached the stage where important bills are meeting their fate on the floor of the House and Senate each day.

Prospects are bright that this session will see the enactment of some real worth while tax reform measures which will lessen the burden upon the general property of the state. Realizing the menace of tax exempt securities and the unjust burden which their issuance imposes upon real estate, the Senate is considering favorably the companion bills placing the annual specific taxes upon foreign and domestic securities.

Attacking the problem of the growing tendency of Michigan municipalities to plunge headlong into bonded indebtedness, Senator Howard F. Baxter of Grand Rapids has introduced a bill providing that only serial bonds be issued, except in cases where a sinking fund is established into which annual payments are made amounting to as much as would have been paid if serial bonds had been issued. The bill provides for limiting to six mills the amount to be raised to retire bonds and setting 30 years as the limit they may run.

Income Tax Proposed

An amendment to the state constitution to provide for a personal income tax has been proposed by Rep. Wilbur B. Snow of Comstock. The resolution further provides for the abolishing of the primary school interest fund and the placing of the property of public utilities on the general tax roll.

The bill sponsored by Rep. Charles Evans of Tipton, which would give the State Tax Commission authority to pass upon the tax exemptions requested by the charitable homes of fraternal societies passed the House 85 to 2. Rep. Evans believes that this bill will add about \$50,000,000 to the tax rolls of the state.

Early in the session it was rumored that a bill would be introduced abolishing the present three-man State Tax Commission and substituting a one-man commission. However, this proposal aroused very

strong opposition among the rural members. They pointed out that it was probable we would have a Detroit governor most of the time and with a one-man tax commission also from Detroit it would be too much centralization of authority regarding tax matters in the hands of the Wayne County interests. In view of this sentiment among the members, the plan for a one-man tax commission has been abandoned and now Rep. Charles Evans of Tipton has introduced a bill providing for a State Department of Taxation with a board of three members, one to be a full time man and the other two members to devote part time to the work. Such an arrangement will give some measure of protection to the rural districts of Michigan.

Pass Highway Bills

Real progress is being made with the program of highway legislation agreed upon by Senate and House leaders. The Atwood bill authorizing the State Highway Department and the State Administrative Board to lay out and construct 500 miles of new trunk line mileage was passed unanimously by the Senate, while the House approved by a vote of 71 to 14 Rep. Ming's bill which turns over the construction and maintenance of the state trunk line system to the state authorities and will by January 1, 1926 entirely relieve the various counties of any responsibility, financial or otherwise, in connection with the state's trunk line highway system.

Senator George C. Hunter of St. Johns has introduced a bill which would give the State Public Utilities Commission authority to order railroads to install wig-wags, electric blinkers and other warning signals at any crossings designated by the Commission. The Commission is exercising such authority at present but does not have full legal authority to do so.

The alarming increase in crime in Michigan is stirring the solons to the point where they appear to be ready to take extreme action. The House of Representatives, which during past sessions has repeatedly killed capital punishment bills, now seems

in a mood to pass the McEachron bill, which is the death penalty proposition before the 1925 legislature. This bill slid through general orders with apparently strong support and has been made a special order of business for Thursday afternoon, March 12.

Would Revive Whipping Post

Another severe measure intended as a crime deterrent has been proposed by Rep. Charles Culver of Detroit. His bill provides that for any crime punishable by life imprisonment the trial judge might impose the further sentence of "ten to twenty strokes of the lash on the bare back, well laid on at the end of each six months of imprisonment." The bill provides that the flogging would be done by the warden of the prison or his aid under his direction. The total number of lashes could not exceed 300 strokes.

Despite the frantic efforts of some of the Wayne county delegation, the measures to increase the Wayne county representation in the Senate and the House are still retained in the committees to which they were referred. It is not certain whether they will be reported out or not. Some significance is attached to the fact that the House has passed unanimously the Dykstra resolution providing for submitting to the people the question of whether there shall be a general revision of the state constitution in 1927. Some people feel that with this constitutional convention looming up in the near future the whole matter of re-apportionment should be left for settlement at that time.

Members of the legislature who take seriously their duty in connection with appropriation bills are considerably concerned over the fact that, after all, no matter how carefully they may do their work it does not matter much anyway, as the State Administrative Board spends money as it sees fit, with or without legislative authorization. Senator Harry H. Waitley brought these facts to light when he submitted a statement of information which he had secured from the State Administrative Board showing that since the

legislature last adjourned the State Administrative Board had expended \$1,600,000, without any authorization from the legislature.

A realization on the part of the House members that when the session was over they would have a rather vague idea as to how much money they had appropriated and for what purposes, led them to adopt, with a roar of approval, Rep. Miles S. Curtis' resolution providing that within 30 days after the adjournment of the legislature each member should be furnished with a statement from the Auditor General as to all of the appropriation bills which had been passed.

Delay M. A. C. Name Change

Since the last issue of THE BUSINESS FARMER, the proposition to change the name of the Michigan Agricultural College has received little favor. When it became evident that the proposal to change the name of the East Lansing Institution to the Michigan State College would be defeated if it came to a vote in the House, the bill was re-referred to the House Committee on the Michigan Agricultural College. Chairman Strauch of that committee has advised your Lansing correspondent that he sees little use of reporting out such a bill as long as the House members continue in their present mood. He declares that the proposition might make progress if it were introduced in the Senate and such action may be taken.

Rep. Chester Howell's bill permitting Boards of Supervisors to issue bonds not to exceed \$75,000 for erecting or purchasing buildings for agricultural fairs passed the House 89 to 3.

From a strictly agricultural point of view, perhaps the most important bills now pending are those relating to the eradication of bovine tuberculosis and for making the Federal potato grades compulsory in Michigan. This latter bill has been the subject of several conferences and hearings and will probably be reported favorably by the Senate Committee on Agriculture in the near future. This committee has reported out the appropriation for paying the indemnity on tubercular cattle, but has cut the appropriation from \$500,000 for each of the next two years down to \$250,000. The bill is being considered by the Senate Committee on Finance and Appropriations.

Agricultural Products Now On Level With Other Commodities

By DAVID FRIDAY

Former President of the Michigan Agricultural College

SO many people have been busy of late telling us of the need for a balanced agriculture that no one has had time to call our attention to the fact that the most serious lack of balance has disappeared. When the Bureau of Labor Statistics brought out its index number of wholesale prices for December, 1924, all commodities stood at 157 as against 100 in 1913. This was a surprising advance from the previous month and from the low prices of last June. But the biggest surprise of all was that farm products also stood at 157, or exactly on a level with all other commodities. Thus the balance between the prices of agricultural and other commodities has been restored. Now the same index number for January stands at 160 for all commodities, while farm products are at 163, which is well above the general level.

The lack of balance between these prices, or as it was commonly called, between the purchasing power of the farmer's product and that of other commodities, was the farmer's most

serious grievance. In January, 1922, the Bureau of Labor Statistics index number touched the lowest point to which it fell in the post-war depression. At that time all commodities stood at 138, farm products at 122, and non-agricultural commodities at 150. Surely this spelled hardship for the farmer.

It was in that month that President Harding assembled the agricultural conference in Washington. By April, 1923, 15 months after this conference, the index number of all commodities had been carried up to 159 by the business revival. This was the highest point it reached. But farm products stood at only 141 while non-agricultural commodities brought 176.

Prices Decline

Prices began to fall that spring, and by June, 1924, all commodities had got down to 145. Farm products stood at 134 and non-agricultural commodities at 155. It was

this depression of the prices of farm products as against the things which the farmer bought which gave rise to his discontent. If it could be remedied, the farmer's worst troubles would be solved.

The late Secretary Wallace, in discussing the situation in the spring of 1922, said:

"If it were possible to bring up prices of everything to about 60 per cent above the pre-war level, that would benefit most of our people and the nation at large."

The Bureau of Labor Statistics index number of wholesale prices for January reached the mark set; and farm products were actually above other prices. The indications now are that the index number for farm products will stand above the non-agricultural group for some months to come. In short, the balance between farm products and other commodities has been restored—a fact which has been overlooked in the

current discussion of the agricultural situation.

Error in Analysis

Those who insist that the balance is not yet restored, and who base their objections on the fact that some farm products are not yet 60 per cent above the level of 1913, make two errors in their analysis. In the first place they fail to distinguish between the prices of all farm products and of certain specific ones like cattle.

The other factor which is overlooked is that some of these farm prices do not stand very much above 1913 because that happened to be a year of high prices for the product in question. Live stock, for example is not much above 1913 in price at this time. But good to choice steers were bringing a far higher price in 1912 and 1913 than they had ever brought before. In 1910 they had averaged \$7.02 per hundred, which was the best figure up to that time. The average for this grade of steers for the 12 years, 1900 to 1911, inclusive, was \$5.87.

Tuscola County Test Proves Robust Beans Best

Planting Side By Side Farmers Find Robust Beans Outyielded Other Well Known Varieties Grown in Michigan

By D. F. RAINEY

Extension Specialist in Farm Crops, M. A. C.

RESULTS OF ROBUST BEAN TEST IN TUSCOLA COUNTY

| | Lane | Van Allen | Romain | Average |
|----------------|-----------|-----------|-----------|-----------|
| Robust | 43.09 bu. | 38.24 bu. | 44.07 bu. | 41.80 bu. |
| Early Wonder | 35.14 bu. | 34.27 bu. | 34.91 bu. | 34.77 bu. |
| 1000-1 | 37.24 bu. | 34.83 bu. | 33.06 bu. | 35.04 bu. |
| Great Northern | 38.53 bu. | 31.70 bu. | | |
| 1200-1 | 41.91 bu. | 39.10 bu. | 31.61 bu. | 37.54 bu. |
| Romain | 41.69 bu. | | | |
| Early Tefface | 39.74 bu. | 36.76 bu. | 32.48 bu. | 36.33 bu. |

It would seem that so many articles have been written and so much has been said that every farmer raising beans would have Robusts. But they don't. In Tuscola county where some men have been growing Robust beans for years, there are still many men who think that the Robusts won't give the yield they get from their early wonders or 1200-1 or some other variety.

Mr. Sims, County Agricultural Agent in Tuscola County, thought that it would be an excellent plan to have some bean variety tests in the county. He would have some of his farmers plant a row of several varieties side-by-side in their bean fields. These could later be harvested, threshed and then compare the yields. That ought to indicate which group of his farmers were on the right track, the ones growing the Robusts or those sticking to the old faithfuls.

What he planned, Mr. Sims carried through. He arranged with the Farm Crops Department, M. A. C. to supervise and lay out the work, furnish some of the seed, thresh the beans, and compute the yields. He got three farmers, Henry Lane and Charles Van Allen, of Fairgrove and Peter Romain, of Caro, to each plant a bean variety test. The results of

the three tests are given in the accompanying table.

Doesn't this show plainly enough why the men who grow Robusts continue to do so year after year? Those few extra bushels do help out and especially so in a season such as this when beans are bringing such a good price on the market.

If you like to figure out possibilities, just take a pencil and paper and see what ten acres of Robusts would have returned over ten acres of Early Wonders, or 1200-1. An extra \$12 to \$15 per acre would take care of most of the cost of growing the beans on many farms.

It is some of the seemingly small things which make for success. If we fail, it is usually a long drawn out process—not suddenly do we find that everything is gone. And if those who are succeeding are not making a lot of money each year, but each year they do add a little to their store. And with the beans—don't look for a variety which is going to double your yield, but rather when you find one which will yield a couple bushels more per acre, grow that until a better variety appears.

In each of the three tests shown, the Robusts yielded better than any of the others with one exception. I

believe that if you will recollect you will agree that the best variety of wheat you ever had was occasionally beaten, the same could be said of any other grain. When the boys start a rasslin' match round the threshing machine, which one do you bet on? The best of them gets thrown once in a while but if he usually lands on top he is the best. And anyway it takes two falls out of three to win.

Well, the same thing can be said of the Robust, it usually lands on top too. That's what counts. You noticed that the 1200-1 beat it on Mr. Van Allen's farm, but the Robust was high on the other two farms and the average was over four bushels per acre in its favor.

These tests apply all right not only to Tuscola county but to others as well. The Farm Crops Department, M. A. C. has been conducting such tests as these for several years in different parts of the state as well as at East Lansing. If you want to know what Robust beans have done in your part of the state, write the Farm Crops Department.

Buy some certified Robust beans this spring and give them a trial. Your county agent can give you the names of growers who have some seed inspected by the Michigan Crop Improvement Association.

Railroad Ticket for \$2.75 Entitles Holder to Ride Anywhere in Holland

By FRANCIS A. FLOOD

In this article, the eleventh of his series on European travels, Mr. Flood tells us more about farming in Holland as well as his experience in riding on the trains in that country.

WHEN Jim Wilson and I were in Alaska, two years before this European trip, we met a wonderful girl whom we called Skookum Kate, and with whom both of us fell desperately in love during the two or three weeks that our journeyings threw us together. I described in a letter to one of my more particular friends in the States how the charms of this delightful maiden had completely captivated me—but the page which mentioned that Skookum was only ten years old was misplaced, somehow and didn't get included in the letter. It was most unfortunate—but that was two years ago.

"Emma" was a champion Holstein cow that was proudly exhibited for our approval in the Zuider Zee country in Holland. She had a record of 53,000 pounds of milk in three successive years and was an exceptional cow in every respect. Every member of the editorial party took at least two pictures of this great cow, as she was pointed out to represent almost the exact type for which the Dutch breeders were working.

Mr. Shoup, of the American consulate in Berlin, had joined our party in Holland and had travelled with us to Denmark. Then he hurried back to his office in Berlin to map out our route through Germany and Switzerland. When we reached Berlin a few days later he and his young wife invited us out to their home for a real American-made dinner, and during the evening some one mentioned "Emma".

"Say, Emma certainly was a wonder, wasn't she?" exclaimed the young Mr. Shoup enthusiastically, although in subdued tones, so that he would not detract from the effect of his wife's piano concert. I thought I noticed that Mrs. Shoup missed a few notes at that.

"She surely was!" agreed Colonel Cobb heartily.

"Did you get a good picture of her?" Shoup pursued eagerly. "I took two myself, but they didn't turn out very well. I sure want to have a good picture of Emma. She was a wonder!"

"Well, yes, I took that one when you were holding her." From the twinkle in the colonel's eye, I still believe that he had noticed that "Flow. Gently. Sweet Afton" was splashing along over rapids and cataracts. "You want one that will show her shape, don't you?" And so the Colonel went on until finally Sweet Afton fell over a big high dam and Mrs. Shoup turned around on the

piano bench, without saying a word, however.

It was a bit awkward for a moment, but the good old doctor rose nobly to the occasion. "Emma was a cow, you see, Mrs. Shoup, a champion Holstein down in Holland. She was a record holder and a really good cow." The doctor raved on.

The mischievous colonel then slyly complimented the doctor on his presence of mind in saying that Emma was a cow—slyly, but loudly enough for Mrs. Shoup to hear. This only operated to confirm any suspicions that the lady might already have had concerning the nature of "Emma" and it horrified the doctor to think that he was being made to appear as an ally in double dealing, to protect an erring husband.

The truth was that Mrs. Shoup cared nothing about Dutch "Emmas" and much less about Holstein cows. She had heard all about Emma before anyway—but she didn't see any use in furnishing good music when her farmer guests insisted on talking about old cows.

Most of the cows in Holland are the Holstein and Dutch Belted. We visited the farm of C. Neefje near the Haarlem Lake Area which was supposed to be typical of a Holland dairy farm. The cows are kept on pasture during the summer months and never go inside the stable. There were rugs on the barn floor, lace curtains at the windows, and valuable old Delft plates placed around the stalls for ornament. The servants sleep in little alcoves opening onto the stalls. Everything was painfully clean.

In the Holland cities we had observed that everything is scrubbed, except the people, but it seemed that in the country even the people were scrubbed. The house and cheese factory and barn were all together and each part was as clean as the rest.

At the time of our visit Mr. Neefje was milking 17 Holstein cows on his farm. These cows averaged about 7,000 pounds of milk each and it was practically all made into Gouda cheese, for this was in the Gouda district. In this district about 90 per cent of all the milk is made into this particular variety of cheese under government supervision and regular inspection, although each maker also stamps on the cheeses his own individual label and number.

During the summer Mr. Neefje was making four of these huge Gouda cheeses per day, each one weighing about 80 pounds. They are cured in the stable for four weeks, the curing process including frequent rinsing in salt water. A good Gouda cheese must cure for at least six more weeks in cool storage before it is considered fit for consumption.

Before leaving Gouda and Haarlem Lake Area, we visited the famous bulb districts of Holland, especially those at Lisse where the state maintains phytopathological laboratories for the purpose of preventing spread of disease among bulbs for export from Holland. Our guides were particularly desirous that we visit these great laboratories and they left nothing undone to impress us with the fact that the bulb growers of Holland use every caution that

can be taken to be sure that no plant disease shall invade the bulb districts.

Ten million dollars worth of bulbs are exported from Holland every year and half of these come to the United States. Our own country, then, is the best customer of the bulb districts of Holland which support these thousands of thrifty Dutch people. But on January 1, 1926, daffodils are to be cut off the list of importations into the United States, and there are other restrictions and limitations placed by our government upon the shipment of bulbs from Holland into the United States. The people of Holland resent every one of the measures. Some of them may be unjust, and may be prompted more by the danger of business competition than by any plant disease the bulbs may carry into the United States, and it is the purpose of the Hollanders to remove as many of these restrictions as they can. Here was an opportunity.

Except on Long Island and in parts of Florida, Michigan and California and only in small areas of these places, can good bulbs be grown in our own country, and on account of the great difference in the cost of labor and the natural efficiency of the extreme intensified farming methods of the thrifty Dutch, it is difficult for us to compete with the Holland bulb growers.

The climate in this narrow strip of land that is called the bulb district of Holland, is nearly ideal for bulb culture. The land is level, with the same depth of water table so that all the bulbs get the same amount of water. The winters in this small bulb district of Holland are not too long, nor too cold; they do not have a hot spring to push the bulbs too fast and too early. They get cheap, but highly skilled labor, the people who have worked in bulbs for generation after generation. One enterprising bulb salesman was on the same boat with me when I returned. He was coming to the United States to sell bulbs and he said he had always worked with bulbs on the same farm where, his father, his grandfather, and his "over-grandfather" had always worked in bulbs.

This land in the bulb districts of Holland is worth from \$1,000 to \$3,000 per acre. It is kept heavily fertilized, about one-third commercial fertilizer and two-thirds carefully preserved farm manure. Small, independent holdings of five or ten acres employ several families to carry on the work, but the marketing is done through an exporters' exchange which takes care of the grading, inspecting, and advertising as well as the actual selling. It is no

(Continued on Page 23)



The editors pay homage to "Emma", the champion cow.

THRU OUR HOME FOLKS' KODAKS



A FAITHFUL TEAM.—What boy wouldn't like to drive this team? They might not look as fancy as an automobile but I'll bet you would be more certain of going. Peter Linck, Brown City, sent the picture.



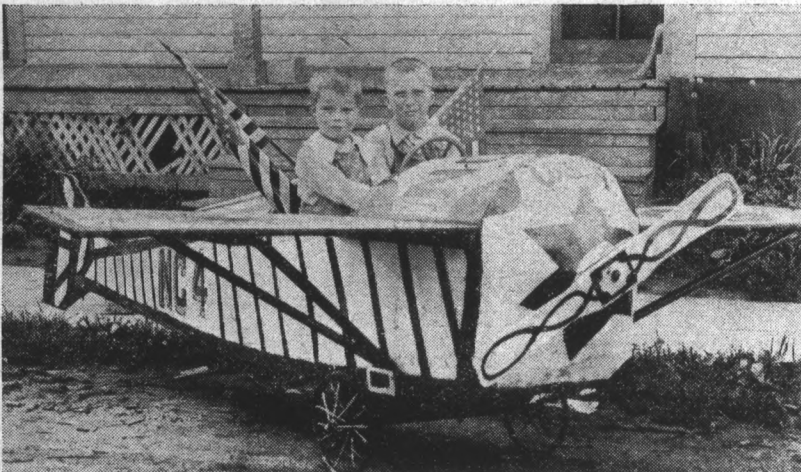
"HELLO!"—"Hello! Is this Mrs. Bert Smith of Ithaca talking? It is? Well, this is your daughter speaking. Come see me sometime. 'Bye.'"



WHY IS HE?—This shows you how good a hunter J. L. Faulk of Byron, is. He is looking all over to find the owl and there he is sitting right on his gun-barrel. Friend Faulk needs some specks.



DRESSING MR. PORKER.—This picture was taken on butchering day not so long ago on the farm of C. A. Butcher at Elsie, Michigan.



TWO BRAVE AVIATORS ABOUT TO "TAKE OFF."—Look out, folks, for Joseph and Arnold Manke, of Ionia, in their "NC 4, U. S. A." airplane! They are just about ready to take a long trip in their powerful machine. But they will return home in time for supper, I think.



INDIAN CHIEF AND HIS SWEET-HEART.—The chief's sweetheart is a modern flapper, isn't she? The picture is from Wm. Hooks, Breckenridge.



"WHEN YOU AND I WERE YOUNG, MAGGIE."—Did you ever see anything like this before—a modern cutter drawn by an ox? The picture was sent to us by Mrs. Earl Davis, of Nessen City.



"MICKIE."—This is Mickie, 2 months old shepherd puppy, owned by Thad Clements, of Webberville, Mich. Smart looking, isn't he?



THE FAMILY PET.—H. D. Shryock, of Bloomingdale, sends us this print of his wife, two daughters and the family pet. This hog was an orphan and was raised on a bottle.



PROTECTION FROM THE COLD WINDS.—This plan to protect the children from the winter winds while riding back and forth to school is used on Brookside Farm, Ewart, Dan Booher, proprietor.



BOILING DOWN THE SAP.—It is maple syrup time on the Kruger farm, at Grand Ledge. "Last year I tapped 100 trees," writes Wm. R. Kruger "and made 45 gallons of syrup and also some sugar." We'll come over when you have a "sugaring-off" party.

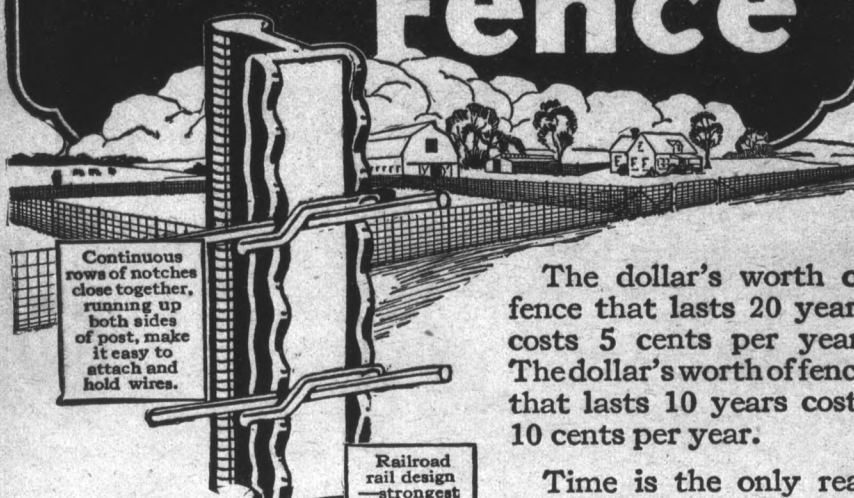


"WHEN CITY DOG VISITS COUNTRY DOG."—This is the title given to this picture by Edna Butcher of Elsie. Edna's dog is at her right and the dog belonging to an aunt living in the city is at her left.

(We pay \$5 for each kodak picture used on our cover and give a one year renewal for each picture used on this page. Pictures must be sharp and clear.)

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Continuous rows of notches close together, running up both sides of post, make it easy to attach and hold wires.

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How Bill Bucked the Tiger

A Farmer's Experience With Slickers, Shysters and Crooks

By WILLIAM EDWARDS

FIRST Aid to the local community whenever trouble arises is the job some one has in every section of the country. That was Bill Edward's position after he retired from the farm and because he was successful in settling a few scrapes for himself and wife, the neighbors just naturally brought their so interesting was Bill's experiences that he was induced to write them.

Two installments have already been run. In the first, Bill told how he thought he was wise to investments because he had purchased a few Liberty Bonds and how one wild cat stock salesman had trimmed him. The experience Bill received, he claims, was worth a part of the cost and in order to make up the other part Bill took to passing his information about the community. Thru his clever work as an investigator he saved his wife from a trimming and then by careful work managed to stop the exploitation of others in the community on a silver mine deal.

He tried to help out some ladies who sold their poultry to a fellow who offered them a better price in the form of checks but found out that the checks were as worthless as the fellow signing them.

Then he bought a new automobile and his experiences with it made an interesting chapter in Bill's life. He learned something even if it did cost him the price of a tire. Then another outbreak of stock buying broke out in the community. The boys learned a lot before they got their money's worth, for the stock they bought proved to be a lemon. Bill, in spite of his caution, bit also, and his wife took a lot of satisfaction telling him about it. But he has a chance to get even, for Maria stepped over the edge, as you will see.

(Continued from Feb. 28 Issue)

SPECIAL meeting next Thursday night," phoned Tim Holly, Secretary of the Society.

"How's that," says I, "don't the president generally call such meetings. Who authorized you to talk for me?" and I was kind of warm under the collar.

Tim was a good boy, and didn't mean anything, he says, and told me he didn't say that. A bunch of the boys wants a special, he explained.

"Oh, that's different. Well, if they want it I guess we can have it, only we ain't got no speaker, Tim. Maybe we can get the County Agent to talk on something. He's pretty good at that, eh?"

"Don't need a speaker if what I hear is true," shoots back Tim. "There seems to be something in the wind that needs looking after."

So we arranged the meeting and Maria was as curious as a high school girl. All day Thursday she kept putting questions to me and when I couldn't answer she got kinda huffy.

"Well, I hope it's that Ladies' Night you fellows have been planning for the past six months. I'm getting tired of waiting. All you fellows do is talk and no action."

Eight o'clock found us, the Smith boys and me, at the Odd Fellows Hall where we met. Because it was a special meeting most of the boys was there, and already Tim was spending most of his time in the kitchen fixing up the refreshments. We always had something to eat as our meetings ran till late. Once when we was organizing the elevator association it was one thirty before we quit and Maria was sure mad when I got home.

Just then Fred Kelley came in with a stranger and brought the fellow over to see me. Kelley runs the oil station on the court house square. He is the son of Michael Kelley who was one of the pioneers that settled Jackson City. Mike had been dead for several years but I remember his telling how he drove oxen out from Cleveland back in '52. Left a lot of money, too.

Fred's friend, Henry Dike, was a middle aged fellow who looked like a preacher. He was, we found out later, but was not working at it now.

Dike carried a little case and was a pretty good sort of chap.

Fred said Dike had something he wanted to talk on and explained to me and while I was suspicious, I agreed. You see Dike had been in town for several days and had been talking to the boys. We had been sawing wood and that was the reason I missed out.

Well, the meeting was called to order in regular form, me presiding, and Kelley was introduced.

"Friends," says Kelley, "I come before you tonight as I believe we have something unusual for your eyes. Our good friend, Dike, who by the way was a friend of my father's and who has been known to Ma and us youngsters for a long time, has been out west. While I am no prophet, yet I have been talking to Mr. Dike for several days and am sure that he has a real message for us."

With that Dike got up, carefully adjusted his coat, wiped off his head, and opened up his case and set a contraption on the table before him. It looked like a little engine. Out of the bottom of the case he took a bunch of photographs and set one, a picture of an elderly man, up in front of the engine. Again he cleared his throat and began to talk.

Most of his first ten minute talk was devoted to praising Mike Kelley, telling what a fine man he was, which was true, and then he began talking about a fellow by the name of Rowell. It seems that he and Rowell had been to preachers' college together, but Rowell, that was the fellow who's picture he had, was of a mechanical turn of mind. For years he worked on engines and starved along, sometimes having not more than a few dollars to live on for weeks at a time. But he always kept working on his one idea, and told about an engine that would revolutionize the ordinary gasoline type. "And", says Dike, picking up the model in his right hand and the picture of Rowell in the other, "let me introduce to you the man who has made the discovery of the century. Folks, meet Mr. Rowell, and meet his engine."

It sure was a great talk. Dike showed how the engine worked. He

(Continued on Page 17)



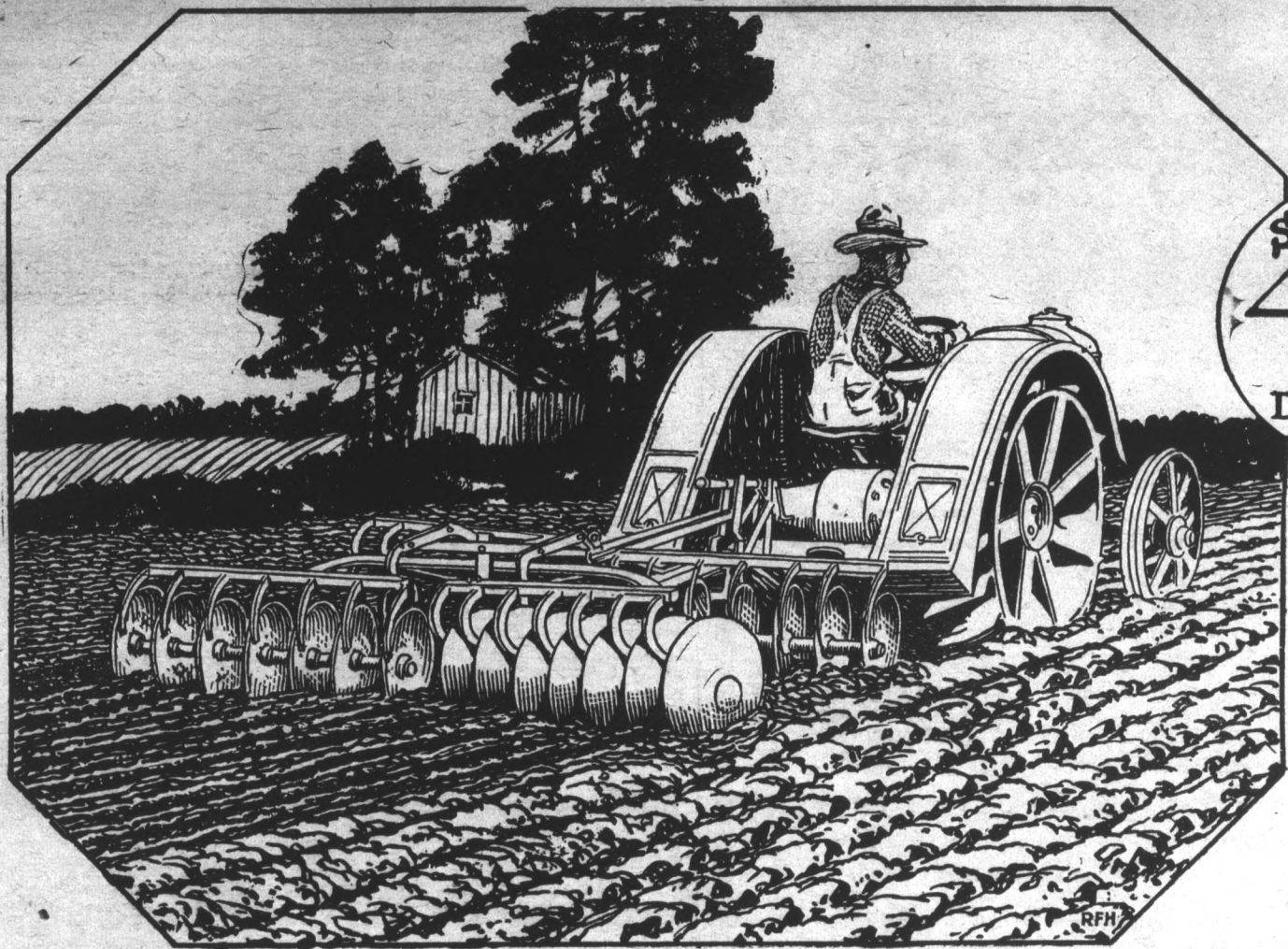
From then on Kelly's oil station replaced the post office as a leading place.

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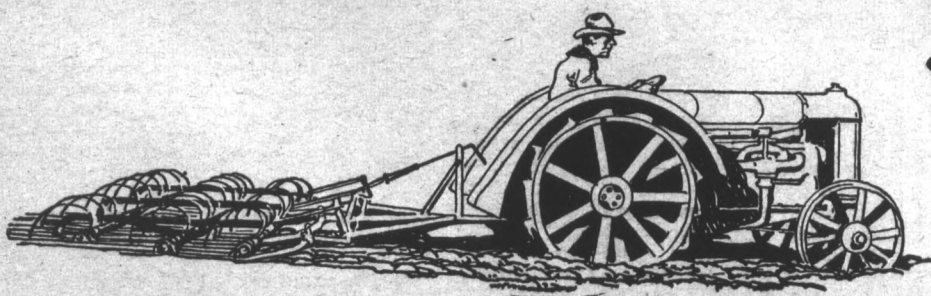
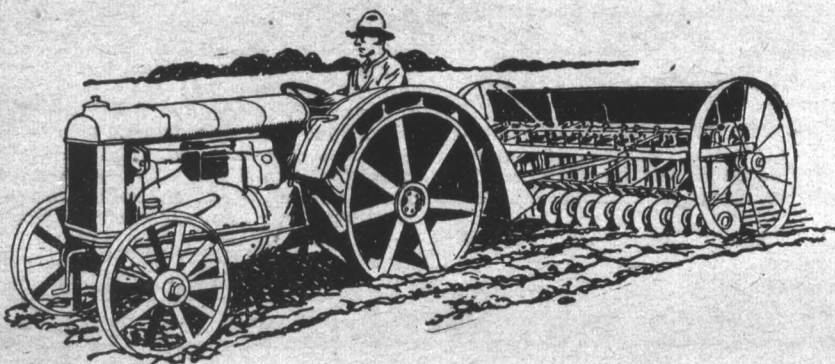
The Lesson of Lean Years

Lean years—such as those passing—often lead to long profits because of the lessons learned in cutting the cost corners.

Progressive farmers have found that good farm machinery, particularly the tractor, does more to reduce costs and increase yield than any other one thing.

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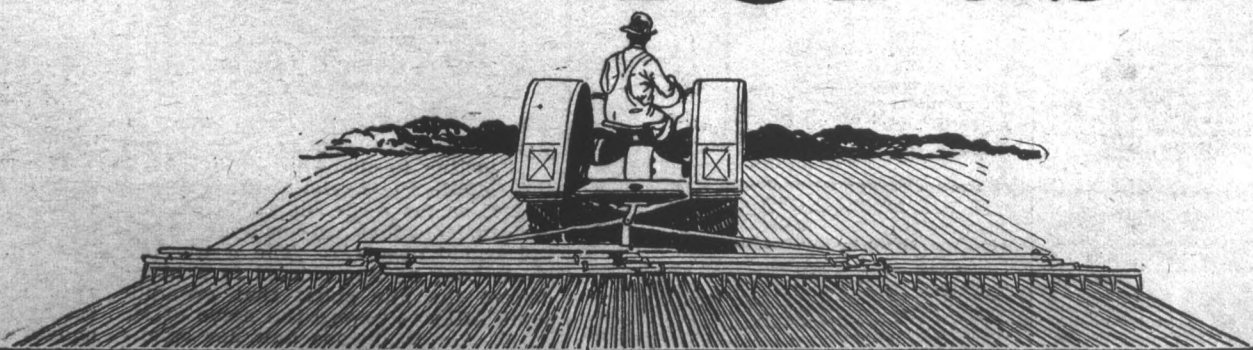
So it is no wonder that farmers generally are facing an era of better prices with every confidence that the things they have learned in the lean years are going to lead to better profits in the better ones ahead of them.



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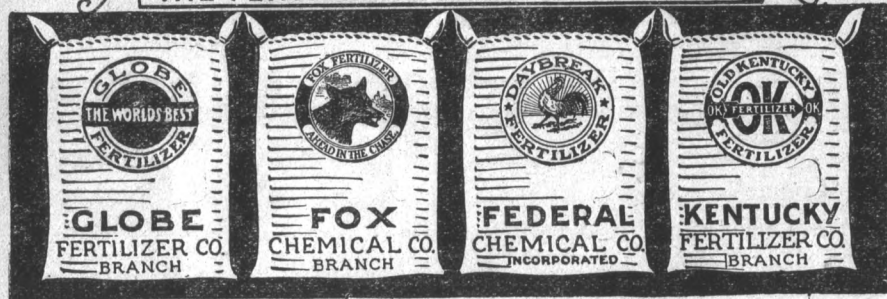
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FIG. 1966

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FIG. 1996

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CAN SUE FOR BREACH OF CONTRACT

I started to take a correspondence course with an engineering school an electrical course, and was to pay five dollars a month until completed but in the meantime I decided it was too hard and so much work so I thought I would discontinue it. They are now trying to make me pay for the whole course whether I go any further or not.—B. M., Capac, Mich.

UPON your refusal to go on with the contract, the company could sue you for breach of contract and recover damages. This would cover such items as the value of the books furnished you and possibly the commission of the agent who sold you, etc., but they could not recover for the full value of the course if you did not take it.—Legal Editor.

PEDDLING ARTICLES

Does a person have to have a license to go through the country selling articles that he has manufactured himself, such as brooms or things like that? Does he have a right to go out and sell books and make immediate delivery, or must he take orders and deliver at some future time?—S. L. K., Carson City,

YOU would be required to apply to the State Treasurer for a license to sell your goods. The cost would depend upon the manner in which you intend to travel, whether by foot or by vehicle. You could make immediate delivery of the books you sell if you so desire.—Legal Editor.

TAKE ACTION AGAINST SELLER

I bought a cow and he said she would be due in March and I do not think she will be fresh at all. Can I do anything about it? I bought a farm on contract and was to pay a payment of a certain amount and the interest and taxes each year, if I paid the taxes and interest could he put me off? I have paid it all before and do they have to foreclose on a contract the same as on a mortgage?—E. L. C.

YOUR remedy in this case would be an action against the seller for damages for fraudulent misrepresentation or for breach of warranty.

Upon default in making any pay-

ment on your land contract, the seller could declare it forfeited and evict you from possession. You would have thirty days in which to redeem.—Legal Editor.

MEASURING HAY

I would like to ask if there is a rule for measuring alfalfa hay in the barn, in as much as it is heavier than other hay? It seems there ought to be a rule to work it out so that both parties would be satisfied.—F. F., Perry, Mich.

FOUR hundred cubic feet of alfalfa hay is a conservative estimate for a ton. If the hay was allowed to become over-ripe before being cut, or if it was coarse it might require 450 or 500 cubic feet to make a ton.—F. E. Fogle, Assistant Professor Agricultural Engineering, Michigan Agricultural College.

CREOSOTE RUNS DOWN CHIMNEY

What can I do to prevent creosote from running down my chimney? Am burning partly dry, some partly green wood.—V. P. S., Alamo, Mich.

CREOSOTE is formed when wood is burned without having sufficient oxygen to burn freely. More creosote is formed from green wood than from dry wood, and more is formed from some kinds of wood than others. Beech, I believe, is one of the woods giving off most creosote. It is sometimes impossible to prevent creosote from forming in pipes and chimneys. There are, however, some precautions which may be taken to lessen the trouble.

If some dry wood can be burned with the green wood the difficulty will be lessened. If small quantities of wood can be put on the fire so that it is not necessary to completely close the draft less creosote will be formed. So far as I know, there is nothing that can be added to the fire that will stop the formation of creosote. Since creosote is formed from condensation, the better draft that can be had through the stove pipe or chimney, the less will be the condensation, also one would expect to have less creosote forming in a brick chimney than in a stove pipe of a metal chimney.—F. E. Fogle, Assistant Professor of Agricultural Engineering, M. A. C.

What the Neighbors Say

Contributions Invited

CHANGE THE DATE

DEAR Editor:—Referring to the heading "What the Neighbors Say" in regard to Mr. P. G. C.'s letter of January 17th, it may be all right in Gladwin county to leave the date as it is but up here in Antrim county where the snow is from two to six feet deep in some cut down hills, it is almost impossible, when you have to go about eight miles, to get to the polls. I think it would be a good idea to have the date changed to the first Monday in May. As for the time, any man ought to be able to take a day off for a real business meet. We all like to go. "Love thy neighbor as thyself."—E. B., Antrim County.

CHANGE NAME OF MICHIGAN AGRICULTURAL COLLEGE

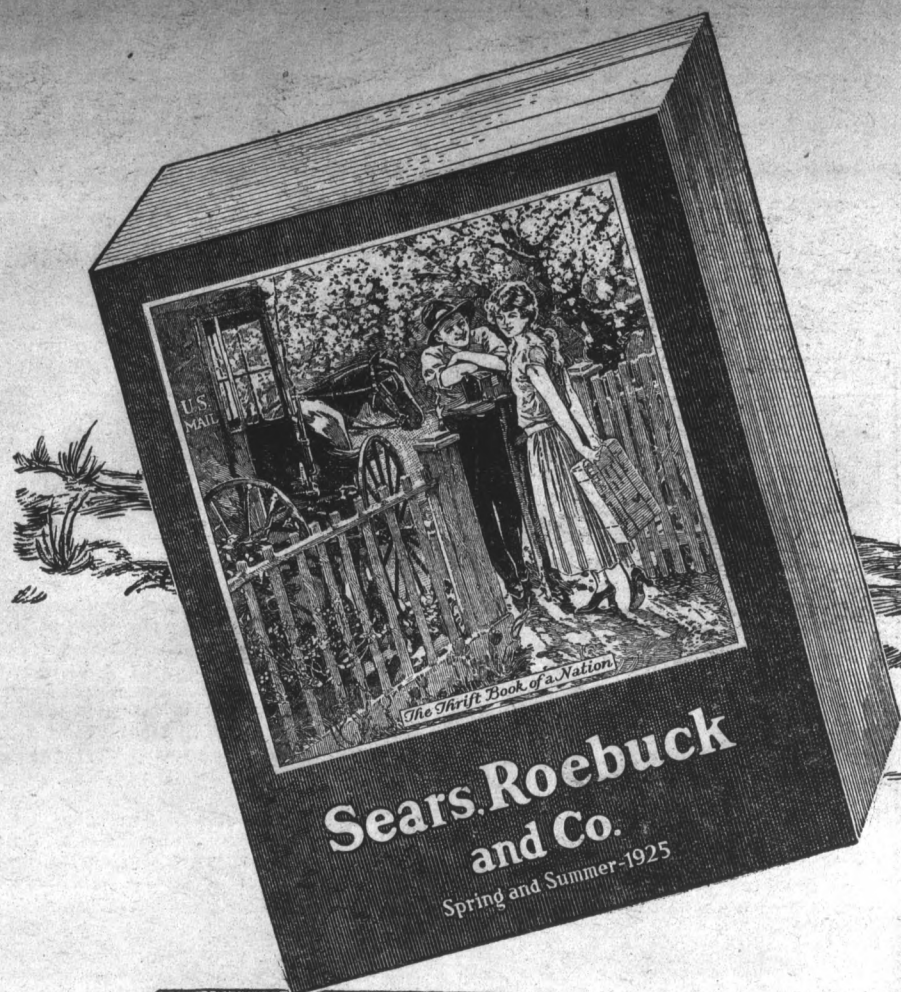
DEAR EDITOR: From time to time there appear articles objecting to changing the name of the Michigan Agricultural College and it seems desirable to bring out certain facts that are not apparent to the casual observer. The writer believes that he appreciates to a large degree the fine spirit that prompts some folks to rever the name of M. A. C., her traditions and her splendid achievement and he hopes that nothing said here may mar that spirit of loyalty. May that spirit be broadened and extended until it includes the welfare of every student of M. A. C. irrespective of courses of study.

For some years it has been aparent that graduates of certain courses have been handicapped by the word "Agricultural". Engineering graduates of M. A. C. go to every part of the United States and employers of technical men frequently do not realize that a good Agricultural College presents good work in engineering and react unfavorably to the word "Agricultural". A number of engineering alumni have suffered unjustly on account of this unfavorable reaction and in the spirit of fairness this handicap should be removed.

The College catalog for the year '23-'24, page 293, shows a Winter enrollment as follows:

| | | |
|-----------------|------|--------|
| Agriculture | 466 | 27.56% |
| Engineering | 469 | 27.74% |
| Forestry | 64 | 3.78% |
| Home Economics | 398 | 23.54% |
| Applied Science | 258 | 15.25% |
| Veterinary | 36 | 2.13% |
| | 1691 | 100% |

Please note that Home Economics and Engineering rival in numbers the Agricultural Division and that on the basis of attendance the name "Agricultural" is not justified. The Institution is really a University in that it gives instruction, conducts research, and confers degrees, and it should be given a name which more truly indicates its nature. The name "Michigan State College" will do this and it carries with it a dignity and a meaning that will be helpful to all.—L. S. Foltz, Acting Head, Division of Engineering, Michigan Agricultural College.



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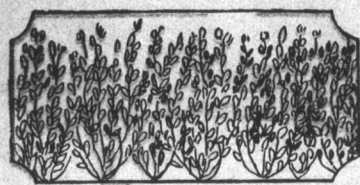
Rural Route..... Box No.

State.....

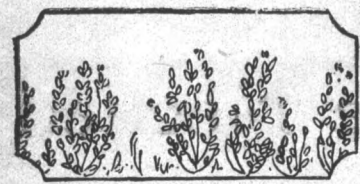
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The first lot gave a good stand



The second came patchy and poor

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SUMMER before last, John Wilson put a piece of land into Alfalfa. It was a fine big field, well drained and in first-class shape. He bought a bag of seed like No. 1, but before he finished seeding he had to go back to town for another peck to finish out with. As his dealer had no more of the same brand, he gave John another kind, which was just as high test and looked fully as good.

The next spring anybody could tell, by the looks of the Alfalfa, just where John left off with the first seed and started with the second. The first gave a good stand, while the second came up patchy and poor.

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Free Book You can learn how to avoid getting seed like John Wilson's No. 2 by reading "7 Lessons in Judging Seed" containing important facts about seeds. Worth dollars and cents to every farmer. Sent free on request.

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Broadscope Farm News and Views

Edited by L. W. Meeks, Hillsdale County

Implement Repairs

THE last week in February was National Farm Implement Repair Week. This has become an annual event and all farmers are urged to look over their machinery and order needed repairs at this time. This seems very good advice, and if you have not already ordered repairs for your tools, it is a matter that should not be delayed much longer. Yes, I know we all have that hunk of baling wire handy, and that makes very



L. W. MEES

good repairs in some cases of emergency but don't make the mistake of considering a wire repair as anything but temporary, and at your first opportunity get proper repairs.

Many farmers would be far better off if they had never used wire on their machinery. For instance a bolt breaks and a piece of wire is used in its place. The wire does not hold the parts tight and to their proper place as did the bolt. There is a strain, there for that is what broke the bolt. The wire may hold the pieces together, and the implement may work more or less satisfactorily for a time. However, that wire connection being loose, too much strain is often placed on some other part, more than it was intended to carry with the result something is bent or broken. This sometimes proves quite costly.

Many times some implement part becomes bent from too severe a strain, and the trouble it causes is often hard to locate. Loose bolts and wire are too often the cause of these undue strains. Don't think from the above, however, that the Broadscope man never uses wire—for he certainly does. In fact there in use, and many are the times one is a piece of wire and a pair of pliers carried on all our implements when can fix harness, whiffletrees, etc., as well as the implement itself with the pliers and wire. But such repairs are only emergency ones.

We have a bolt and rivet cabinet in the shop, and in this are a score of drawer boxes. Each box contains some certain things. Among these boxes is one for carriage bolts, machine bolts, plow bolts, screws, harness rivets, wrought rivets, washers, burrs, coil springs, buckles, cotter pins and several other necessities. In this cabinet we can nearly always find just the bolt we need, and it will

be a new bolt too, as practically nothing but new stuff ever goes into any of the cabinet boxes. We have a sort of scrap pan on the bench, and all fairly good bolts, etc., are put in it, and for some things these old bolts etc., are all right, but no old bolt is of any importance to speak of.

Nearly, if not all implements, have some weak spot in their make up. For instance our binder has a place where the angle steel frame parts are bolted together with three bolts. It has been impossible to keep these bolts from breaking or becoming loose. Have tried every way to overcome this, and long ago gave up and in the tool box on the binder you will find several bolts intended for this very place.

Our sulky plow has a place of great strain where it often breaks a bolt by shearing it in two. This bolt is an odd size and not easily obtainable. When we discovered this weak place and the size of the bolt, we secured some bolts of this size, and there is no more worry about that bolt, for isn't there another handy?

Our disc harrow is the same way. Our manure spreader has a fondness for breaking chain links, and again here is trouble, for the links are an odd size. We order them in quantities and isn't it queer chains and bolts do not seem to break so often if you have new ones in the tool box!

Too many farmers buy in too small quantities. So many buy only one plow point, jointer point, mower guard, bolt, etc., at a time. Why not get an extra one or two? They will be needed. We take an extra jointer point, several extra guards, section knives, chain links, etc., with the implement. No, our tool boxes are not as crowded as you might think they are, because these points, guards, chains, etc., are often fastened to the implement by wire, being put on the frame in some out of the way place and yet always at hand.

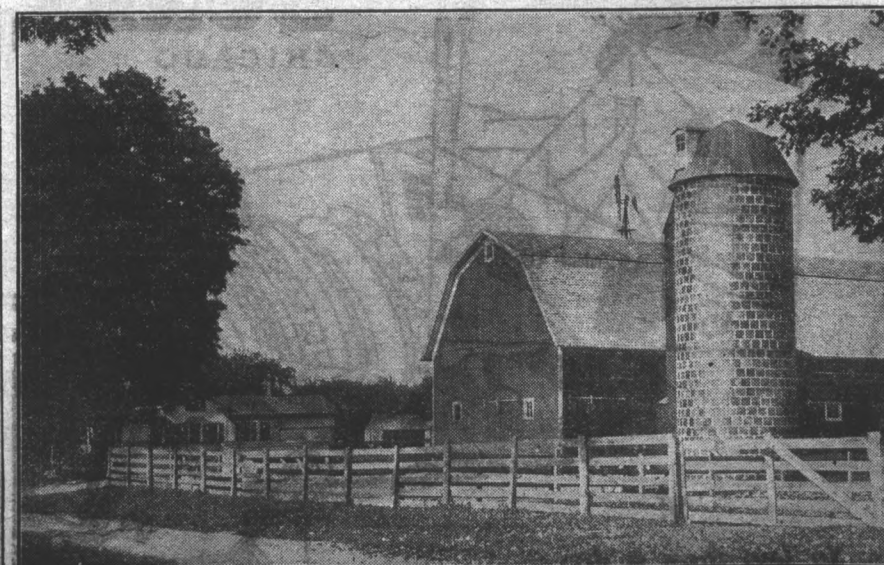
Too Much of a Good Thing

I am reminded I promised in my last article to tell in this one about some garden failures as I have known them. Several years ago we had a neighbor farmer who took great interest in his garden. He had help on the farm so he could take care of his garden in nice shape and he did have a fine garden for three or four years after he bought the farm, but year by year his garden seemed to fall in production and quality of product of much of its contents. This despite his increased effort to make it a success.

One day in early spring, while visiting him, he said it was nearly time to plow his garden, but he had

WHERE OUR READERS LIVE

Haven't you a picture of your home or farm buildings that we can print under this heading? Show the other members of The Business Farmer's large family where you live. Kodak pictures are all right if the details show up well. Do not send us the negatives, just a good print.



FLOYD LOVE, OF HOWELL, LIVES ON THIS FARM

This barn was built in 1913, is 30 feet wide and 90 feet long, and there is room in it for 5 horses, 18 cows and 150 sheep. All floor is cement except in the sheep stable. The silo is 40 feet high. This barn and silo are located on the farm of Floyd Love, of Howell, Mich.



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got to cover it with stable manure first. Said he was in to raise an old time garden that year, if manure would do it. The truth is, he had, every spring, plowed under all the stable manure he could roll under, and his garden was so full of unbalanced plant food and excessive humus that most garden stuff did not grow normally. He had a wonderful growth of tomato vines, but not very many tomatoes. Same with potatoes, corn, peas, etc. So when he said he was going to cover it again with manure, I told him he already had altogether too much manure on it, and that his garden failure was due to that very thing. He seemed at a loss to understand how one could use too much manure on a garden! However he said he wouldn't use any, and would find out if he had overdone a good thing. The result more than surprised him, and at my suggestion he used no manure again the next spring, with increased betterment of crops.

How One Garden Came Back

Have in mind a city friend's garden. This friend, like the farmer mentioned above, always took the best care of his garden, and for years had one to be proud of. The soil was quite black, low ground loam. Rather hard to plow if at all wet. This man kept a horse, and his garden like the farmer's, received too liberal quantities of stable manure every spring. His potatoes, etc., began to fail year by year, and when at his request, I suggested a cause, and told him too much manure, he, like the farmer, did not think that could possibly be it, and insisted on keeping up with the annual application. I told him well and good—if he was determined to continue the stable manure on that low black soil, he should buy some potash and sow it liberally. This did not interest him, and he said he thought maybe the seasons were changing!

A year or two after this, the horse was sold. There was no manure to put on his garden, but three or four loads of good ashes were procurable that spring and these he hired hauled and spread on his garden. The result was far beyond the owner's expectation. And each year since, this garden has given a good account of itself.

Another City Garden Fails

This friend had quite a large garden, and took great delight in making weeds scarce and the ground mellow. He had little, if any, manure to use on it and gradually his crops became poorer. The soil was firm and solid. In sort of desperation he bought some manure and had the garden covered during the early winter. The next spring he had it plowed and seeded to oats and alfalfa. The oats were cut by a neighbor for hay and the alfalfa, which seemed rather small at the time, came on and grew fine. It was cut twice the next year for hay and the following spring the garden was plowed again and a real old time garden bloomed forth, such as the owner had never dreamed of nor expected.

CONFERENCE ON RURAL ELECTRIC SERVICE AT M. A. C.

ON Friday, March 20, 1925, there will be held at the Michigan Agricultural College, a conference for the purpose of discussing the problem of electric light and power service for the farmers of Michigan.

Systematic study of this subject has already been begun in Minnesota, Iowa, Wisconsin, Indiana, Kansas, and other states at the instance of a national committee on the Relation of Electricity to Agriculture.

The principal speaker at the conference on March 20 will be Dr. E. A. White, Director of the national committee, who will outline the problem and make suggestions for studying the subject in Michigan. Opportunity for full discussion will be provided and it is hoped that a constructive program for the work will be one of the results of the Conference. In fact the College feels that the subject of electric service in rural living is very important and is prepared to undertake a study of the subject if assured of the interest and cooperation of the several interests concerned.

For further information apply to G. W. Bissell, Dean of Engineering, Michigan Agricultural College.



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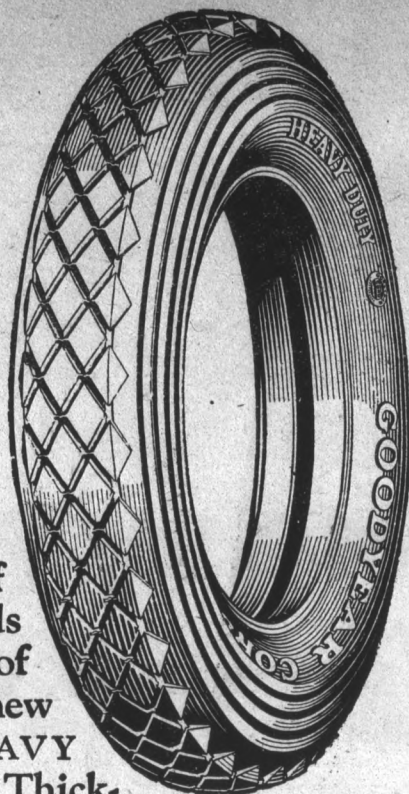
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THE ESSENTIAL GOSPEL

A NON-SECTARIAN SERMON BY

Rev. David T. Warner

TEXT: "God, having of old time spoken unto the fathers in the prophets * * * hath at the end of these days spoken unto us in his son." Hebrews 1:1, 2b.

"THE Essential Gospel." This is the title of a book or pamphlet now current. I have never seen it or read any review of it. But there is something thought-provoking about those words. "Essential." What does that mean? "Indispensably necessary," says Webster. And again, "The essence of." What is the essence of God's revelation to man? Is the "Sermon on the Mount?" But see also Psalms 40: 1-10, Micah 6: 6-8, Jno. 14: 6, and Matt. 22: 34-40. But the clue to God's word for men lies in the small compass in the words of our text.

"God having of old time spoken unto the fathers in the prophets." "In the prophets." There is something very personal and rewarding about that conception of the presence of God. God is not sitting on some faraway, imaginary throne and has not left his created world to run itself. But he is in men seeking and working dominion over the earth. When God is in the prophets we are glad to listen to their essential message. And that message is that the Jehovah God is a God of character and that men who are made to image him must strive to become like him. God is just and humble and loving, and so must men become. This is the gospel of righteousness that was ringingly demanded by the prophets. Of course, we have such a belief hinted at outside the religion of Israel; but for the most part, God was recognized there as being a power and awe quite apart from personal character. And because Israel fell into this false notion and the pagan belief that God is to be pacified through the observance of rites and ceremonies, the prophets set themselves against it. Their insistent word is, that God is moral in character and therefore can be pleased alone by moral responses in his children.

But you say, "Why tell us this? We know that true religion can not be divorced from morality." "But what is essential? What is religion in highest terms? The idea is yet too common and persistent that religion consists in stated periods of worship and ordinance keeping. As I am writing these words, in a country church not many miles away, a woman healer (?) has set up temporary headquarters. People are seeking her by the hundreds, I am told. What idea of healing have these folks? It is enough to say that pagan tricks and quackery have nothing to do with the true and sound healing art. It is colossal humbuggery. This is superstition in healing. And there is yet not a little superstition in religion. Not a few people believe that their salvation lies in the observance of rites and ceremonies some of which have nothing to do with morality. And in the prophets, God is condemning ceremonies that are not moral and social in purpose. Micah has it this way, "What does Jehovah require of thee but to do justly, and to love kindness, and to walk humbly with thy God?" And yet rites are necessary to a functioning religion when of such a nature as to stimulate moral and social likeness to God. Certainly, the essential gospel of the prophets is that God is righteous and delights in personal and social righteousness in his children. This is emphasized in the Psalms which are models of personal devotion, and in the Wisdom literature which is so highly ethical.

Then, after a long period of prophetic silence, God in John the Baptist speaks in anticipation of the coming of Christ. The essential message again centers around repentance and the fruits of holiness. It had to do, preeminently, with character rather than ceremony. But the multitude, bound up in traditional ideas of religion, said, "We don't understand." John said, "Give clothing and food to the needy and avoid extortion and greed." And it

is well to remember that our final and solemn transaction with God is to be negotiated on the basis of some such social test. Mt. 25: 31-46. Verily, religion is life outside the church-house.

Now, our text says, "God hath at the end of these days (days of the prophets) spoken unto us in His Son." And we hear the Son say, "I am the life." Jesus put reality into the prophet's message. Paul follows, "If any man be in this life he is a new creature." That is he is renewed into the likeness of God. To this end was the church founded and Christian rites instituted. The essential Gospel, then, is the good news that mankind is to be redeemed, personally and socially, so that when "He (God) shall be manifested we shall be like him." We can be sure there is no magic power (however mystical it is) that can win for us our heaven. The essential thing is moral likeness to God.

Again, God's Son says, "I am the way." And "The Way" must have been the identical words by which the apostles referred to the early church, because the enemies of first century Christianity designated the movement as "The Way." There arose no small stir concerning the way." And out of persecution and even violent deaths, early Christianity was kept at high moral levels. Compromising was not in vogue. Ananias and Sapphira tried it but met with disaster. The Narrow Way kept to the highlands of moral purpose to be separate from the world and to be like Christ until the fourth century when Christianity became the religion of the state. Then there was swift descent to the lower levels of compromise with the world. Pagan elements entered the church, and soon the notion developed among the masses that rites and ceremonies constitute orthodox religion. Folks yet expect to get to heaven this way and are not prayerfully in earnest about following "The Way."

But you say, "I am faithful in church attendance, and at prayers, and have a good name in the community." Well, this is at least respectable, though it should amount to more. But you will recall the Pharisees were models of such respectability. And Jesus said to them, "The publicans and harlots go into heaven before you." You see, there is a pride and hypocrisy that will shut us out of heaven as surely as uncleanness and adultery. It is time to know that the only possible way to redemption is to desire seriously to be like God who made us to be like him, and who showed us how, in Jesus Christ, we might and could be like him. This is the essential Gospel.

And now, I believe that the thing about Christianity which is so displeasing to the masses today, is not so much the church ritual, but the exacting moral standard of Christ. Prohibition and laws in favor of a clean Sabbath are too exacting. And many of these complaints are church members in good standing. Others oppose sexual standards which are uncompromisingly Christian. Others are engaged in selfish oppression of their fellows. Now, what is the matter? Ah, a rejection, not of rites, but of moralities. The life principles of the Christ are being repudiated by his own professed followers. Yet, there are notable examples in the church that are honestly pleading and practicing the way of Christ in the various areas of living. Dr. Kenyon L. Butterfield, in a recent address, is reported as saying, "It is inconceivable that we can have a social program satisfying from a Christian point of view, without having Christians whose lives are essentially religious. We need both the inner life of religion and the outer life of religion."

The most important requirements of modern life are two—prayer and fellowship. By prayer, I am thinking of that form of prayer that constitutes real communion with God; and by fellowship I am thinking, of course of bringing into all the rela-

tions of life the spirit of the square deal, of social justice, of comradeship—in other words the spirit of love and brotherhood. All this is but another way of stating the ancient laws of love toward God and love toward fellow man." How finely Christian! After all, this is the essential meaning of the gospel of Christ, to teach us how to commune with God, the Father, and how to get along with men as brothers.

So, then, we are not to get rid of Gospel rites, but to emphasize Gospel practices. To do this we must shift the emphasis of our teaching, and change some of our denominational promotion machinery. Rites are but a means to an end which is Christian character. God in the prophets, and God in his Son, has taught us that this moral grandeur of character belongs to all who will permit God to freely live in them. This is the essential Gospel.

BLESS THE LORD, O my soul, and forget not all his benefits; who forgiveth all thine iniquities; who healeth all thy diseases; who redeemeth thy life from destruction.—Psalm 103:2-4.

BE SURE YOUR SIN WILL FIND YOU OUT.—Numbers 32:23.

RADIO DEPARTMENT

By J. Herbert Ferris, R. E.

TROUBLE WITH THE SHORT WAVE STATIONS

WITH the present arrangement of broadcasting stations there are a great many working on the waves between 200 and 300 meters, and you no doubt have noticed the difficulty that you have in tuning in these stations sharply.

There are several reasons for this, amongst which are that your tuner may not be selective enough and that its tuning arrangement is such that the tuning is very broad. The cause of the trouble is likely to be that the variocoupler or variometer has too many turns of wire on it so that it can not tune down low enough or that the condenser (variable) is of too great a value and a very little change in it changes your receiver from one wave to another.

One of the easiest ways of separating these low wave stations is to use a condenser of lower value so that you have to make quite a change in dial setting to go from one station to another.

If you are now using a condenser of .001 mf. capacity (43 plate) change to one of .0005 mf. capacity (23 plate) this will mean that you will have to turn your dial nearly twice as far to make the same change in wave length that you did with the old condenser. In some instances you will need to go down to even an 11 plate condenser to separate the stations far enough to tune them in sharply.

At this season of the year we are apt to hear many of the very low power stations that you cannot hear in the very warm weather. A wave trap will also help you to get rid of some of the interference when listening to these stations that come in so close together.

RADIO PROGRAMS

WESTINGHOUSE RADIO STATION KYW, CHICAGO, 7:30 P. M.

March 17—"Distribution to the Farm Factory", by H. M. Railsback, Deere & Co., Moline, Illinois. "Some Lessons From European Farmers", by the editorial staff of Orange Judd Illinois Farmer.

March 19—"What Dairy Calf Club Work Means to Dairyland", by Wm. E. Skinner, general manager, National Dairy Exposition. "What Farm Community Life Means to Illinois", by Paul A. Potter, Assistant Editor of Orange Judd Illinois Farmer.

March 24—"New Tractors from Old Ones", by J. E. Hill, State Superintendent of Agricultural Education, Springfield, Illinois. "Monthly Analysis of Farm Markets", by H. W. Moorhouse, Director of the Agricultural Research Division, Brookmire Economic Service.

March 26—"Among the Baby Beef Clubs", by Frank W. Harding, Chief Executive, American Shorthorn Breeders' Association. "Something We Are Going to Do This Season", by D. C. Waterman, Director of the Service Bureau, Orange Judd Illinois Farmer.

March 31—"Grain Market Review", J. W. Coverdale, Secretary-Treasurer of the Grain Marketing Company. "When Farmers and Bankers Get Together", by Wayne Hummer, President of the Illinois Bankers Association, La Salle, Illinois.

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The Michigan BUSINESS FARMER

SATURDAY, MARCH 14, 1925

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We will not knowingly accept the advertising of any person or firm who we do not believe to be thoroughly honest and reliable. Should any reader have any cause for complaint against any advertiser in these columns, the publisher would appreciate an immediate letter bringing all facts to light. In every case when writing say: "I saw your advertisement in The Michigan Business Farmer." It will guarantee honest dealing.

"The Farm Paper of Service"

M. A. C. WILL STICK

THE proposition which certain interests attempted to crowd through the legislature to change the name of the Michigan Agricultural College to "Michigan State College" has been referred to the House Committee and will be given serious consideration and ample time for discussion and investigation before it again appears on the surface, which is improbable at this session.

Our Lansing correspondent tells us that it was quite interesting to stand "on the hill" the morning the last issue appeared and note the little groups of representatives reading over their copies of THE BUSINESS FARMER and our editorial comments therein.

We cannot believe that it was much of a surprise to those representatives who come from farming districts to understand why their constituents would oppose giving up a name which is so highly cherished by them.

Let us keep the Michigan Agricultural College an institution for the promotion of those interests for which it was founded in the State of Michigan, even though it may not grow so large as to rival our other institutions of learning, which must be paid for out of the same tax-payer's pockets.

The farm organizations, the farm leaders and the farm press of the State of Michigan ought to stand absolutely united and for all time, against the possibility of another attempt under the cover of secrecy to oil through the legislature any such blunder.

We sincerely thank those readers who acted so promptly in advising their representatives what they thought of such a change. We feel that they were the "Minute Men" who jumped to their arms when we took the role of Paul Revere and cried for their help.

With this kind of a solid front the farmers of Michigan can maintain a profitable and happy agriculture in what we believe to be the greatest state in America, for all time.

Thank you!

PROSPERITY SEEN BY MELLON

YEARs of "prosperous and healthy conditions such as succeeded the election of 1896" were forecast for the United States by Andrew W. Mellon, Secretary of the Treasury, in the annual report of the Treasury sent to Congress.

The Secretary's views are based, he said, on the repudiation of "various theories inconsistent with economic laws" and the endorsement of a program of constructive handling of Government affairs given in the last election. He counseled the Nation, however, to approach its problems with intelligence that the progress made and the groundwork laid in the last four years may not come to naught.

The United States, he asserted, was the first world power to come through the post-war transition stage successfully and the first to be able to present "reasonable assurance" that "true progress" will continue within its borders. Mr. Mellon urged perpetuation of the program adopted by "the great majority of our people in the last election" which he interpreted as one of "hard work, and economy and sound policies."

In general economic conditions as well as in the domain of federal fiscal operations, Mr. Mellon recounted how complete the transition had been. He said that in the last four years the per capita

tax on citizens of the United States has been cut from \$54 to \$27, or exactly one-half; public expenditures which in 1920 exceeded \$6,500,000,000, were only \$3,500,000,000 in the fiscal year which ended last July 1, and the "complete disorganization" of the economic structure by the collapse of prices in 1920 and 1921 has been rectified.

"While recovery of agriculture has been slow, it has been substantial, and today, due largely to changing conditions in world crops and world markets, faces a new era. The maladjustment between agriculture and other industries has been removed, and the farmer is nearly restored to his proper status in the economic system," he said.

GOLDEN MINARETS

LIKE the Golden Minarets that crown the hills about Bagdad and proclaim to the world the wealth of its citizens do the sturdy red silos of Michigan mark the homes of our greatest wealth producers—the dairy cows.

If there are those who question whether Michigan is the state of prosperous farming, let them take some cognizance of the statement just issued as of January first which shows that only Wisconsin and New York lead Michigan with her 49,340 silos. Nearly 10% of all the silos in the United States are within the State of Michigan.

There is a spot in Michigan from which you can, by simply turning round the horizon, count eighteen of these minarets of prosperity and no locality which can boast of these need fear for the future of its farmers nor the welfare of their children.

More power to the silo, but let's have still more of them!

NEGLECTED HORSES

MEN who are in position to observe have recently stated that farm horses are being neglected and are consequently neither so good nor so efficient as they used to be. The careless hired man is blamed for a part of this and the owner for the rest. Since first hearing this statement we have made inquiries which seem to confirm it in three states at least. We appear to need a rekindling of the old-time pride in farm work horses. This is not sentiment, it is business, for the horses which the owner is proud are the most efficient in doing his work. How can this interest be revived and maintained? One thing that might help is a class for farm teams at local shows and fairs. Another is a parade of farm work horses in connection with picnics or local farm products shows or other events in which both country and town participate. The horse is going to remain useful as farm power. The better the horse the more effective the power, and we are all concerned in effective power regardless of its nature.

EACH TO HIS OWN

THE other day on the train we met a mechanic who was going out to install seats in a school house. He said he owned a good farm in central Illinois a few years ago but it had lost him \$27,000 besides in speculating in wheat. "That deal put me into overalls" was the way he summed it up. He wishes that he had stayed in overalls on his own farm, attended to his business of production and left speculation to speculators. And he is not the only man who feels that way. Some of our wisdom is acquired at great cost—but too late.

THE MISBRANDING BILL

IN reporting the misbranding bill to the House of Representatives the Committee on Interstate and Foreign Commerce submitted a rather lengthy document giving reasons for reporting it rather than any of the many bills for truth in fabrics or other commodities. We need not discuss these reasons; rather let us look at the misbranding bill itself. It prohibits the shipment in interstate and foreign commerce of any misbranded article. An article is misbranded if it or its container bears or is shipped, delivered for shipment, sold or offered for sale under any name, description or statement which misleads or deceives or is likely to mislead or deceive. The deception is made illegal if it relates to the identity of the producer or the nature of his business; to the identity of the purchaser; to the endorsements of any person or any employee of any government; to quantity or quality; to component materials; to rights of privileges under patent or copyright; to advertise in any form. Deception in any of these things is misbranding and is illegal. Any yarn, fabric or wearing apparel is misbranded if it (1) bears the term "virgin wool" and it contains any wool of the sheep or lamb or hair of the Angora or Cachmere goat that has been respun or in any manner reworked; or if it (2) bears the term "all wool"

and it contains any cotton, jute, hemp, silk or any fiber other than wool of the sheep or lamb or hair of the Angora or Cachmere goat. Wearing apparel is not misbranded if the principal cloth conforms to the definition of virgin wool or all wool. For instance the lining or trimming would not condemn a suit or dress if the principal cloth were as described. The careful reader will discern that this bill merely forbids a false brand on any commodity instead of requiring a correct brand as the several truth-in-fabrics measures do. It goes about as far as we can expect now in such legislation, and perhaps we will not want to go much farther later.

A RENTER'S PROBLEM

A RENTER, who has his own livestock and tools, has three "very steady, good boys" and two girls, the oldest boy nineteen. This renter wants to own a small farm and his boys want to help him, but they think they can help most by working at something else. The family council has decided to seek a farm near a town or city, so that the boys may drive to work and live at home while they are helping to pay for it. We are asking whether the plan is sound and where a truck or dairy farm near a town or city can be found. The plan is good if it will work, and that can be determined in only one way, by experience. We do not know any town or city where there is always "plenty of work" as the enquirer expresses it. Sometimes there is plenty of work and sometimes there isn't, but with a farm in reserve the worker need not be idle even if his pay check fails. Maybe somebody knows a farm that would appeal to this family which wants to stick together and pay for it.

A CHANCE TO LEARN

LAST week William Goldman, a New York manufacturer of clothing, repeated his statement that wool shortage is a myth, that the world has a two years supply, etc. Probably Mr. Goldman believes his statement and his statistics too, but apparently nobody else does. If he wants a demonstration let him offer a large amount of wool for delivery next January at a substantial reduction from the present price level. He will find plenty of takers, and later he will learn something more.

HIGHER HOGS

LAST week's hog markets indicated that the bulk of the crop has been cashed, this turn coming about a month later than was generally expected. Hogs advanced everywhere, touching \$13 at Eastern points, but the advances did not bring out big supplies as heretofore.

Predictions of \$15 hogs for April are made, but that may depend on a factor that has retarded the progress of other things lately—the attitude of consumers. They may "back up" on hog meats just as they have done on other meats when they considered prices too high. There is no other source of cheap meats, however, and the consumers must turn to something else rather than to some other meat. With dearer hog meats we should see a better demand for beef than in the recent past.

MERE QUESTIONS

IF farming does not pay now and never has paid, as a great manufacturer asserts, how did farmers ever accumulate the vast amount of wealth they now hold. Were these millions of good farms, with their stock and equipment, created out of losses? Were the millions in good and bad securities held by farmers paid for with deficits? If farmers can pile up such wealth out of losses what could they do if agriculture could be made to pay?

A CORN-BELT QUESTION

A READER asks what we would do if we had to plan for years to come the operation of a corn-belt farm. The first thing would be to determine the kinds of livestock to be kept or finished, for we assume that a corn-belt farm should be a livestock farm. Next would be to study the crops best adapted to the livestock to be kept or fed. In a crop program we would scheme to reduce the area of wheat and to increase the production of corn. For wheat may be produced economically in many lands and through many parallels of latitude while corn can be produced best and cheapest in the corn belt. How to raise more corn on the same farm and maintain or improve the fertility of it is quite a problem, but its solution is worth while. That's as far as we've got in this farm planning but many corn-belt farmers haven't got that far, for they are raising wheat in competition with the world. Maybe that's because they are wiser than editors and others who try to peer into the future.

PUBLISHER'S DESK

THAT CATTLE SWINDLER AGAIN

"I saw your item with reference to cattle swindler. I read it Friday, February 14, and Saturday morning a car stopped at my place at 8 o'clock and a man came in. As soon as I saw him the thought came to me that he answered a complete description of the cattle buyer, even to the gold tooth, size, etc. Then the question came, 'Have you any cattle to sell?' I told him 'no'. I then asked him what kind of cattle he was buying. He told me anything and everything and made for his car. I called again to him, thinking I could detain him, and get some more information but as his car was running he could not hear me and got in and drove north toward Alpena. I live 29 miles south of Alpena and 5 miles north of Lincoln on M. 10."—E. R. Barker, Lincoln, Mich.

UPON receipt of Mr. Barker's letter we got in touch with James G. Hayes of the M. A. C. and he is trying to locate this man. Everyone keep an "eye peeled" for a cattle buyer answering this description: six feet tall, medium build, weight about 170-190, hair light brown, eyes blue. Gold teeth, believed to be eye teeth. Wears a watch charm of pearl fashioned as a cow's head. Has or affects a decided southern accent. Has used the name H. C. Helms, or L. E. Cox.

Have him arrested and wire collect to the sheriff at Corunna or Grand Rapids, Mich., to the sheriff at Hagerstown, Maryland, to the sheriff at Springfield, Ill., to the chief of police at Waterloo, Iowa, or to J. G. Hays, East Lansing, Mich.

WANTS TO INVEST

"I have a sum of money I wish to put out to interest, somewhere I am sure of the interest and can redeem the principal if I want to. Will you recommend some good place?"

REFERRING to your inquiry of February 24, my suggestion is that you get in touch with one of the good real estate bond houses in Detroit because this is about as safe a place as you can find for an investment of a small sum of money.

I believe that most of them make a practice of making the principal available on short notice although this is not an obligation on their part and I do not know of anything except a certificate of deposit which would exactly meet the terms of your request.

FOX FARMING

"I take your paper and have much confidence in you as the farmers' friend so take the liberty to ask you what you think of fox farming. I am thinking of going into the business and would appreciate your advice."

THE United States Department of Agriculture and the various state colleges are divided in their opinion as to the practicability of fur farming and its future.

We know that there are hundreds of profitable ranches in Canada and a great number in the United States. The particular locality where you are situated is undoubtedly good for fox raising and if the market maintains as it has started this may prove a profitable industry. As we understand it, up to the present time it is largely a matter of disposing of breeding stock from one breeder to another. In other words, the ani-

mals are worth a great deal more for breeding purposes than for pelts.

We are certainly not in a position to advise you on going further into this business. Your own experience and the experience of other breeders in Michigan must be your guide.

VIGILANCE COMMITTEE SCORES FRAUDULENT CHICK REMEDIES

FOR the first time, the United States Post Office Department has issued a fraud order covering alleged cures for poultry diseases according to announcement by the National Vigilance Committee of the Associated Advertising Clubs of the World.

The order was issued against the H. M. Spahr Breeding Estate of Thurmont and Spahr, Maryland, for representing its products as the most scientific drugless cure that has ever been discovered for the deadly roup, colds, canker, diphtheria and chicken pox.

GREAT LAKES FINANCE CORPORATION

"Will you be kind enough to advise us as to the stock of the Great Lakes Financial Corporation, Chicago, Illinois?"

WE understand there is a nominal quotation of Great Lakes Finance Corporation stock of around 3 to 4. The market is weak and there is far more stock for sale than there are purchasers to buy it. Last year we understand that the stock sold up around 7 to 8 when they were helping to finance a subsidiary. This probably was a good deal manipulation and not a real market.

The history of this concern is comparable with most of the numerous finance companies that have sprung up around the country in the period just following the war when exorbitant rates could be obtained for loaning money for speculative purposes. Since this fever has subsided, and they must accept ordinary rates or jeopardize their investment, the imaginary large profits have not been forthcoming.

MAKING GLOVES

"What do you think of the company sending the enclosed circulars? They advertise for people to sew gloves for them in their own home and say that they will purchase all a person can make."

WE do not think well of such work-at-home schemes. There are several throughout the country who have a "Home Sewn" glove scheme and in all of the cases we have heard of the worker is obliged to make an initial deposit of \$5.00 to \$10.00 with the understanding that she is to make gloves for the company, receiving a certain sum per dozen pairs for the sewing. Reports are that most of these companies do not buy the finished product back, claiming that they are not sewed properly or using some other excuse. So the indications are that these fellows are out for the initial payment only, not expecting the worker to continue with them.

The Post Office Department has arrested the officials of several of these companies charging them with using the mails to defraud. One of these companies is Kenneth Hackley of Earl Park, Indiana, whose scheme seems to be identical with the one you sent in.

If you receive any more circulars from such companies, just remember that the paper can be used for starting the fire.

SILVER LEAF MINING COMPANY

"What is there to the Silver Leaf Mining Company, Fort Steel, B. C.? I would appreciate your advice."

OUR representative finds that the Silver Leaf Mining Company, Ltd., of Ontario which owns some property in Cobalt and which was leased to the Crown-Reserve Mining Company is inactive. The lease expired in 1919 and has not been renewed. The property is now reported inactive and the last quotation we find for the stock was around 1/2c per share.

First Mortgage Real Estate Gold Bonds

Among farmers of standing in their communities there is a very evident preference for the first mortgage real estate bonds recommended by this institution.

Write for Booklet AG1371

Tax Free in Michigan

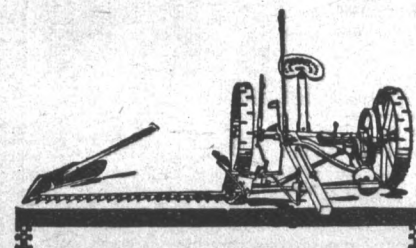
Normal Income Tax Up to 4% Paid by Borrower

6 1/2%

Federal Bond & Mortgage Company

(1371)

FEDERAL BOND & MORTGAGE BUILDING, DETROIT



Try Its High Easy Lift

Know for yourself how easy it is to raise the cutter bar on the John Deere Mower, the mower with the high, easy lift.

Go into the store of your John Deere dealer, get on the mower seat and operate the remarkable lift. You will appreciate the labor saved you by this valuable feature.

Notice that the foot lift raises the bar amply high for turning and for ordinary obstructions. The hand and foot lift combined give you an extra high lift for meeting extreme field conditions. The John Deere is so easy to operate that a boy can run it.

You will also note the simple trim design of this mower. It is quickly and readily adjusted, its special arrangement of driving gears reduces wear and increases cutting power.

Your dealer will show you many other good points that go toward making the John Deere a mighty profitable mower to use.

FOR FREE LITERATURE write to John Deere, Moline, Illinois, and ask for booklet MB-633.



Better Cultivation in Field and Orchard



A Real Double Purpose Harrow. Gangs can be closed together for field work or extended for orchard cultivation. Gangs are reversible in either position.

Clark Reversible Extension S. A. Harrow

Made in six basic sizes which can be furnished with regular heads or with various extensions up to 14 ft. cut. Disks are of cutlery steel with edges forged sharp. CLARK "CUTAWAY" implements are the only ones having forged edge disks. Send for our complete catalog of horse and tractor drawn disk implements for orchard, farm and garden; also name of nearest distributor and valuable free book, "The Soil and Its Tillage."

The Cutaway Harrow Co., 532 Main St., Higganum, Conn.

Oats

SENSATION—One of the most productive oats in cultivation. 75 bushels and upward per acre are frequent with large white meaty grains weighing 44-46 lbs per measured bushel of the highest quality. Seed furnished as low as 75c per bushel in quantities. You should by all means try these oats. Send for sample and circular.

THEO. BURT & SONS, Box 150, Melrose, O.

The Collection Box

The purpose of this department is to protect our subscribers from fraudulent dealings or unfair treatment by persons or concerns at a distance.

In every case we will do our best to make a satisfactory settlement or force action, for which no charge for our services will ever be made, providing:

- 1.—The claim is made by a paid-up subscriber to The Business Farmer.
- 2.—The claim is not more than 9 mos. old.
- 3.—The claim is not local or between people within easy distance of one another. These should be settled at first hand and not attempted by mail.

Address all letters, giving full particulars, amounts, dates, etc., enclosing also your address label from the front cover of any issue to prove that you are a paid-up subscriber.

THE BUSINESS FARMER, Collection Box Mt. Clemens, Mich.

Report Ending March 7, 1925

| | |
|--------------------------------|-------------|
| Total number of claims filed | 2639 |
| Amount involved | \$26,403.18 |
| Total number of claims settled | 2173 |
| Amount secured | \$24,237.13 |

WHEN WRITING TO ADVERTISERS PLEASE MENTION THE BUSINESS FARMER

Two Valuable Books Farm Account Book and Catalog of



SuperZinc-ed

WIRE FENCES

BE sure to build the fences you need this spring. Prices are the lowest in years, and will probably be higher later on. Good fences improve the appearance of your farm and increase your profits more than any other similar investment you can make.

COLUMBIA FENCES

are made from a special formula of steel which we have developed especially for fence manufacture. The wire is *Super-Zinc-ed* with an *extra heavy* and *well bonded* armor of zinc which gives it the best rust protection of any fence on the market. The Super-Zinc-ed covering will not crack or peel, thus keeping rust away from all parts of the fence.

All of our fences are Super-Zinc-ed, and include both hinge-joint and stiff-stay fences for farm, poultry, garden and lawn. Fully guaranteed. Send for farmers' account book and Super-Zinc-ed fence catalogue, both mailed **FREE**. Use coupon or postal card.

Pittsburgh Steel Co.

709 Union Trust Building
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Gentlemen: Please send me, **FREE**, The Farmers Handy Manual, also Super-Zinc-ed Fence Catalog.

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Address _____

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Send today for my New Cut Price Catalog—Bigger bargains than ever this year on Fencing, Gates, Steel Posts, Barb Wire, Roofing and Paints.

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BE COMFORTABLE—
Wear the Brooks Appliance, the modern scientific invention which gives rupture sufferers immediate relief. It has no obnoxious springs or pads. Automatic Air Cushions bind and draw together the broken parts. No salves or plasters. Durable. Cheap. Sent on trial to prove its worth. Beware of imitations. Look for trade-mark bearing portrait and signature of C. E. Brooks which appears on every Appliance. None other genuine. Full information and booklet free in plain sealed envelope.



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BROOKS APPLIANCE CO., 2074 STATE ST., MARSHALL, MICH.

Million Strawberry Plants

\$2.95 per 1000. Raspberries, Grapes, Bulbs, Flower Seeds, Chicks. Illustrated catalog free.

Mayers Plant Nursery, Box 51, Merrill, Mich.

More Money from Your Crops

You can do it with seeds that have vitality and life—that are of high germination and adapted to the soil. The work of preparing the land and planting is the same whether you use ordinary seed or pedigreed seed. But the crop tells the story; added profit—often double or triple—comes from using hardy, big-yielding, Michigan-grown, Isbell's seeds.

46 Years of Better Seeds

For nearly a half century, Isbell's have been developing yield, vitality and hardiness in seeds. Ceaseless experimenting, careful selection, better growing, sorting and cleaning methods have done this. 200,000 customers have Isbell's seeds year after year and get bumper crops. We grow our own seed—you buy direct from us, saving money and eliminating all risk of substitution.

This Valuable Book—FREE

The 1925 Isbell's Seed Annual tells how to select seed, how to prepare soil, gives cultural directions, and quotes direct from grower prices. The coupon brings it **FREE**.

S. M. ISBELL & COMPANY
241 Mechanic St. Jackson, Mich.

Send your 1925 Seed Annual quoting direct from grower prices on Quality Seed. (71)

Name _____
Address _____



The Indian Drum

By William MacHarg and Edwin Balmer

Copyright by Edwin Balmer

(Continued from February 28 Issue)

SHERRILL opened the long envelope from which several thin, folded papers fell. He picked up the largest of these which consisted of several sheets fastened together with a clip, and handed it to Alan without comment. Alan, as he looked at it turned the pages, saw that it contained two columns of type-writing carried from page to page after the manner of an account.

The column to the left was an inventory of property and profits and income by months and years, and the one to the right was a list of losses and expenditures. Beginning at an indefinite day or month in the year 1895, there was set down in a lump sum what was indicated as the total of Benjamin Corvet's holdings at the time. To this, in sometimes undated items, the increase had been added. In the opposite column, beginning apparently from the same date in 1895 were the missing man's expenditures. The painstaking exactness of these left no doubt of their correctness, they included items for natural depreciation of perishable properties and, evidently, had been worked over very recently. Upon the last sheet, the second column had been deducted from the first, and an apparently purely arbitrary sum of two hundred thousand dollars had been taken away. From the remainder there had been taken away approximately one hundred and fifty thousand dollars more.

Alan having ascertained that the papers contained only this account, looked up questioning to Sherrill; but Sherrill, without speaking, merely handed him the second of the papers. . . . This, Alan saw, had evidently been folded to fit a smaller envelope. Alan unfolded it and saw that it was a letter written in the same hand which had written the summons he had received in Blue Rapids and had made the entries in the little memorandum book of the remittances that had been sent to John Welton.

It began simply:

Lawrence—
This will come to you in the event that I am not able to carry out the plan upon which I am now, at last determined. You will find with this a list of my possessions which, except for two hundred thousand dollars settled upon my wife which was hers absolutely to dispose of as she desired and a further sum of approximately one hundred and fifty thousand dollars presented in memory of her to the Hospital Service in France, have been transferred to you without legal reservation.

You will find deeds for all real estate executed and complete except for recording of the transfer at the county office; bonds, certificates, and other documents representing my ownership of properties, together with signed forms for their legal transfer to you, are in this box. These properties, in their entirety, I give to you in trust to hold for the young man now known as Alan Conrad of Blue Rapids, Kansas, to deliver any part or all over to him or to continue to hold it all in trust for him as you shall consider to be to his greatest advantage.

This for the reasons which I shall have told to you or him—I cannot know which one of you now, nor do I know how I shall tell it. But when you learn, Lawrence, think as well of me as you can and help him to be charitable to me.

With the greatest affection,
Benjamin Corvet.

Alan, as he finished reading, looked up to Mr. Sherrill, bewildered and dazed.

"What does it mean, Mr. Sherrill? Does it mean that he has gone away and left everything he had—everything to me?"

"The properties listed here," Sherrill touched the pages Alan had looked at, "are in the box at the vault with the executed forms of their transfer to me. If Mr. Corvet does not return, and I do not receive any other instructions, I shall take over his estate as he has instructed for your advantage."

"And, Mr. Sherrill, he didn't tell you why?" This is all you know?"

"Yes; you have everything now. The fact that he did not give his reasons for this, either to you or me, made me think at first that he might have made his plan known to some one else, and that he had been opposed—to the extent even of violence done upon him—to prevent his carrying it out. But the more I have considered this, the less likely it has seemed to me. Whatever had happened to Corvet that had so much disturbed and excited him lately, seems rather to have precipitated his plan than deterred him in it. He may have determined after he had written this that his actions and the plain indication of his relationship to you, gave all the explanation he wanted to make. All we can do, Alan, is to search for him in every way we can. There will be others searching for him too now; for information of his disappearance has got out. There have been reporters at the office this morning making inquiries, and his disappearance will be in the afternoon papers."

Sherrill put the papers back in their

envelope, and the envelope back into the drawer, which he relocked.

"I went over all this with Mr. Spearman this morning," he said. "He is as much at a loss to explain it as I am."

He was silent for a few moments.

"The transfer of Mr. Corvet's properties to me for you," he said suddenly, "includes, as you have seen, Corvet's interest in the firm of 'Corvet, Sherrill and Spearman.' I went carefully through the deeds and transfers in the deposit box, and it was plain that, while he had taken great care with the forms of transfer for all properties, he had taken particular pains with whatever related to his holdings in this company and to his shipping interests. If I make over the properties to you, Alan, I shall begin with those; for it seems to me that your father was particularly anxious that you should take a personal as well as a financial place among the men who control the traffic of the lakes. I have told Spearman that this is my intention. He has not been able to see it my way as yet; but he may change his views, I think, after meeting you."

Sherrill got up. Alan arose a little unsteadily. The list of properties he had read and the letter and Sherrill's statement portended so much that its meaning could not all come to him at once. He followed Sherrill through a short private corridor, flanked with files lettered "Corvet, Sherrill, and Spearman," into the large room he had seen when he came in with Constance. They crossed this, and Sherrill, without knocking, opened the door of the office market, Mr. Spearman. Alan, looking on past Sherrill as the door opened, saw that there were some half dozen men in the room, smoking and talking. They were big men mostly, ruddy-skinned and weather-beaten in look, and he judged from appearance, and from the pile of their hats and coats upon a chair, that they were officers of the company's ships, idle while the ships were laid up, but reporting now at the offices and receiving instructions as the time for fitting out approached.

His gaze went swiftly on past these men to the one who, half seated on the top of the flat desk, had been talking to them; and his pulse closed upon his heart with a shock; he started, choked with astonishment, then swiftly forced himself under control. For this was the man with whom he had fought in Benjamin Corvet's house the night before—the big man surprised in his blasphemy of Corvet and of souls "in Hell" who, at sight of an apparition with a bullet hole above its eye, had cried out in his fright, "You got Ben! But you won't get me—damn you! Damn you!"

Alan's shoulders drew up slightly, and the muscles of his hands tightened, as Sherrill led him to this man. Sherrill put his hand on the man's shoulder; his other hand was still on Alan's arm.

"Henry," he said to the man, "this is Alan Conrad. Alan, I want you to know my partner, Mr. Spearman."

Spearman nodded an acknowledgment, but did not put out his hand; his eyes—steady, bold, watchful eyes—seemed measuring Alan attentively; and in return Alan, with his gaze, was measuring him.

CHAPTER VIII Mr. Corvet's Partner

The instant of meeting, when Alan recognized in Sherrill's partner the man with whom he had fought in Corvet's house, was one of swift readjustment of all his thought—adjustment to a situation of which he could not even have dreamed, and which left him breathless. But for Spearman, obviously, it was not that. Following his noncommittal nod of acknowledgment of Sherrill's introduction and his first steady scrutiny of Alan, the big, handsome man swung himself off from the desk on which he sat and leaned against it, facing them more directly.

"Oh, yes—Conrad," he said. His tone was hearty; in it Alan could recognize only so much of reserve as might be expected from Sherrill's partner who had taken an attitude of opposition. The shipmasters, looking on, could see, no doubt, not even that; except from the excitement which Alan himself could not conceal, it must appear to them only an ordinary introduction.

Alan fought sharply down the swift rush of his blood and the tightening of his muscles.

"I can say truly that I'm glad to meet you, Mr. Spearman," he managed.

There was no recognition of anything beyond the mere surface meaning of the words in Spearman's slow smile of acknowledgment, as he turned from Alan to Sherrill.

"I'm afraid you've taken rather a bad time, Lawrence."

"You're busy, you mean. This can wait, Henry, if what you're doing is immediate."

"I want some of these men to be back in Michigan to-night. Can't we get together later—this afternoon? You'll be here this afternoon?" His manner was not casual; Alan could not think of any expression of that man as being casual; but this, he thought, came as near it as Spearman could come.

(Continued in March 28 Issue)

HOW BILL BUCKED THE TIGER

(Continued from Page 6)

explained how it was different. Showed us pictures and read about the patent Mr. Rowell had.

"Now, friends, I am not a salesman, but I believe I have shown you something of real value. Mr. Rowell has organized a company to make these engines and tests are being made at two big engineering colleges. Here are letters showing these tests are being run," and he passed them over to me.

"I am not a salesman", continued Dike, "what I want to do is to give you an opportunity to get in on something that is bound to be worth while in a short time. I do not know what Mr. Rowell has left in the line of interests, but through your own boy, Mr. Kelley, you will be given a chance to invest if you care to. Now all I want is the names of those interested."

Well, every one signed up. We all looked at the letters, the pictures, and the model engine, ate some good sandwiches, which I found out Dike had paid for, and went home enthused. Here was a fellow who didn't want money on the spot. He was willing to give us a chance to investigate, so we didn't.

Then I heard one day that Kelley had bought two shares. They were \$300 each. Kelley wouldn't sell any, but he told us where we could send for them. So I just decided here was a real thing, and so long as Maria had been so sure the last investment was a good one, I decided it was a good chance to get even and she would be proud when she learned how lucky I had been. I made my check to Kelley, who sent it on. Hank Peters, after asking me a lot of questions, did the same. In fact, fourteen of us, we found out afterwards, took interests.

Of course we received shares and a personal letter from Mr. Rowell thanking us. Maria got the mail the day it came, but to my surprise, didn't have much to say.

"That much is worth experimenting with," she grunts. "You get that much fun dreaming over the fortune you are going to get." I didn't quite understand that part but didn't talk about it as she was liable to change her tack most any time.

From then on Kelley's oil station replaced the post office as a loafing place. Kelley had secured a set of pictures like those Dike had and he got letters from Dike which he let us read. They sure was optimistic.

One day Kelley got a letter from the Secretary of the company. A test had been made in the east and a newspaper had written it up. The clippings were enclosed. Say, we pretty near wore out those papers reading about it. At the end of the letter it was reported that most of the shares were gone and it was expected that a raise was due any time.

The most of us who could had Kelley send for more shares. I took two more.

Then the storm broke. Our local paper ran an article saying Rowell was a faker and that the company was in trouble for not complying with a Blue Sky Law in Wisconsin. Considerable stock, the reports said, just had been sold locally and it was rumored an investigation was on.

Instead of the Agricultural Society meeting which was scheduled that night, most of us met at Kelley's. Kelley was game though. He came out and offered to buy back any shares any one wanted to sell at the price they paid. No one sold either. But we did go and bawl out the editor.

Well, the town was pretty hot for a couple of weeks. Kelley was mad, so was the editor, and then one day when the Sun, our paper, come out, here was the worst blow.

"Local Folks Trimmed" was the heading. Maria was reading the paper.

"Well, William, I see you have been stung again. Your \$10 has given you a lot of fun, but this paper says there is nothing to it and that the company is merely a paper concern and has been for seven years. If they have built an engine, no one knows about it."

Well, I was silent as a grave. I couldn't see how Maria got that \$10 idea, but after a sleepless night I happened to think to read over my

(Continued on Page 19)

FOR TEN YEARS-DEPENDABLE

Exceptional dependability has been a characteristic of Dodge Brothers Motor Car since the day the first of these sturdy cars was marketed.

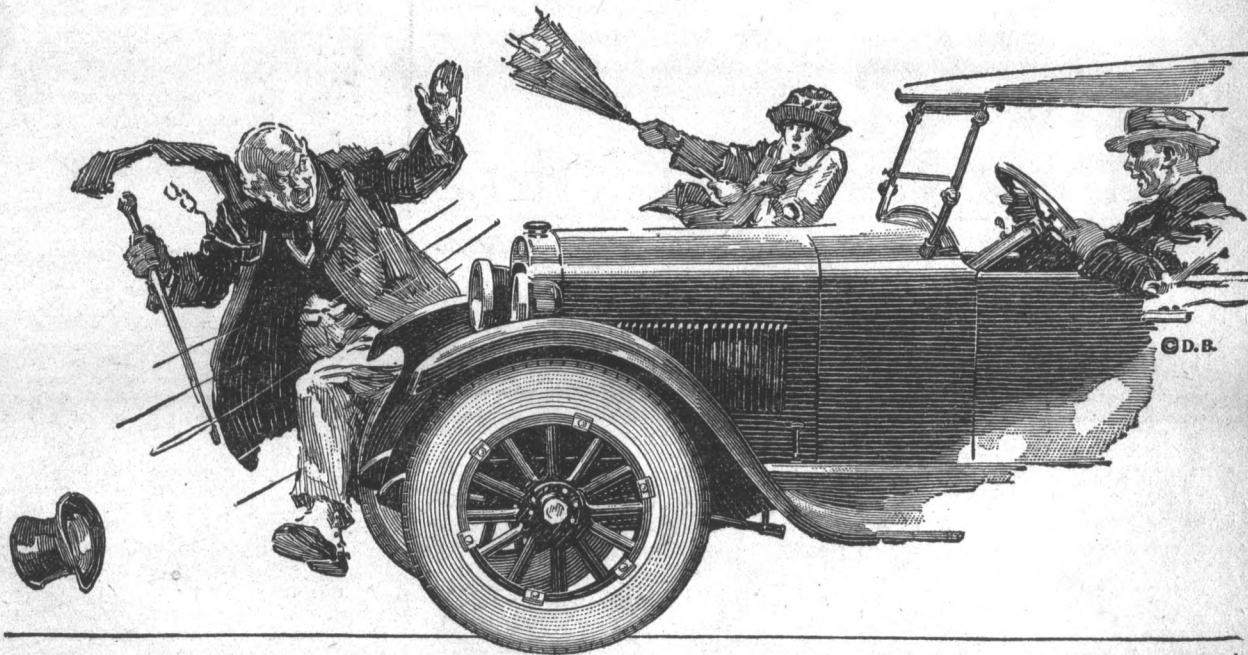
Not once in a decade has it failed to uphold and enhance its reputation for faithful performance.

The reason for its consistent goodness and continued betterment points directly back to the ideals of the founders.

Instead of fluctuating between an endless series of annual models, they determined to concentrate on the perfection of a single chassis.

Dodge Brothers Motor Car today is the embodiment of that ideal—an ideal that will endure as long as the institution itself.

DODGE BROTHERS DETROIT
DODGE BROTHERS (CANADA) LIMITED
WALKERVILLE, ONTARIO



BOLENS Garden Tractor
Does Seeding, Cultivating and Lawn Mowing with greater saving of time and effort. Attachments for different jobs are instantly interchangeable. Many indispensable, exclusive features such as the patented arched axle, tool control, instant hitches, etc. A boy or girl will run it with delight.

Write For Catalog
GILSON MFG. CO. 418 PARK ST.
PORT WASHINGTON, WIS.

PERMANENCE
HOOSIER GLAZED TILE SILOS are best, first, because they last. A 6" hollow wall made of glazed tile reinforced every course of blocks with galvanized steel cable. continuous doors set flush with inside wall allows even settling of ensilage. Better silos made possible by our increased efficiency in methods of manufacture, sale and distribution. Territory openings for dealers. Buy your silo early and save time and money. Hoosier Bldg. Tile & Silo Co. Dept. MB-17 Albany, Ind.

DAHLIAS, 15 FOR \$1; 10 IRIS, MIXED \$1;
75 Gladioli, blooming size, \$1; Hardy plants
equally low prices, prepaid. Circular free.
L. L. MILARCH, Copemish, Michigan.

Choice Strawberry Plants \$3.75 per 1000.
All standard varieties. Guaranteed first class.
MRS. FILENA WOOLF, Dept. J, Allegan, Mich.

Time Tested Windmill

The Auto-Oiled Aermotor has behind it a record of 10 years of successful operation. In all climates and under the severest conditions it has proven itself to be a real self-oiling windmill and a most reliable pumping machine.

An Auto-Oiled Aermotor, when once properly erected, needs no further attention except the annual oiling. There are no bolts or nuts to work loose and no delicate parts to get out of order.

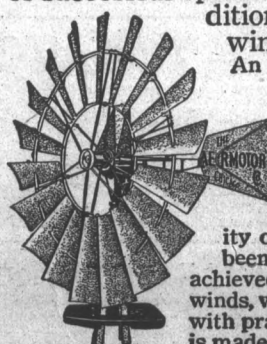
There are no untried features in the Auto-Oiled Aermotor. The gears run in oil in the oil-tight, storm-proof gear case just as they did 10 years ago. Some refinements have been made, as experience has shown the possibility of improvement, but the original simplicity of design has been retained while greater perfection of operation has been achieved. The Aermotor is wonderfully efficient in the light winds, which are the prevailing ones. The self-oiled motor works with practically no friction, and the wind-wheel of the Aermotor is made to run in the lightest breeze. It is also amply strong to run safely in the strongest winds. In any condition of wind or weather you may be sure that the Auto-Oiled Aermotor will give you the best of service. It is made by the company which established the steel windmill business 38 years ago.

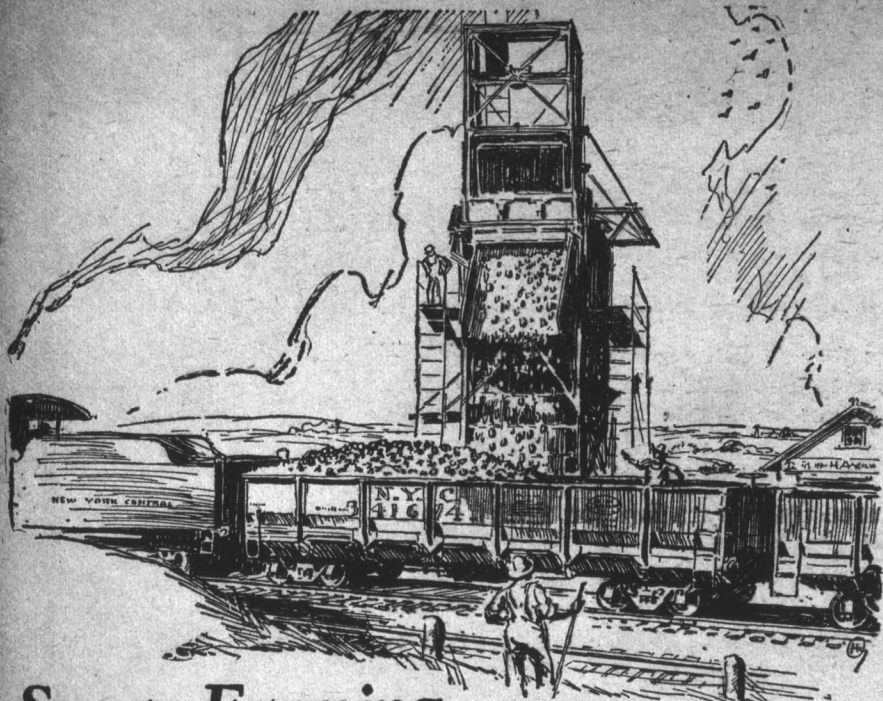
AERMOTOR CO.

Chicago
Kansas City

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Sugar Farming on New York Central Lines

THE American people are the greatest consumers of "Sweets" in the world. Our sugar consumption in 1923 exceeded 5,000,000 tons, of which American farmers produced 1,250,000 tons.

A great sugar beet industry was started in 1897 in Michigan and Ohio, along the New York Central Lines. Today seventeen factories employing more than five thousand men are refining the 1,400,000 tons of beets produced annually by 20,000 farmers in these states.

There is large opportunity for greater and more profitable development of this industry. Beet sugar production fits so well into any farm program that both the fertility of the farm and the prosperity of the farmer are benefited.

More farmers, each year, are realizing the many advantages accruing from the cultivation of a portion of their acreage in sugar beets, as part of their crop rotation program.

New York Central Lines not only provide large numbers of gondola and box cars, and special switching and freight movements for both beets and sugar, but also have a corps of trained agricultural men assisting farmers with production problems.



NEW YORK CENTRAL LINES

BOSTON & ALBANY-MICHIGAN CENTRAL-BIG FOUR-PITTSBURGH & LAKE ERIE
AND THE NEW YORK CENTRAL AND SUBSIDIARY LINES

Agricultural Relations Department Offices

New York Central Station, Rochester, N. Y.

La Salle St. Station, Chicago, Ill. Michigan Central Station, Detroit, Mich.
466 Lexington Ave., New York, N. Y. 68 East Gay St., Columbus, Ohio.

\$3 down Brings Any Size **American Separator**

On New, Low, Easy-Pay Plan. Full year to pay. **30 DAYS TRIAL**

It is not the closest skimmer, easiest to turn and clean, and best guaranteed Separator for the least money, return at our expense and every cent received promptly refunded. Allowance made on old separators of any make.

Write now for free catalog Low prices and Liberal Easy-pay-plan We ship from stock nearest you.

AMERICAN SEPARATOR CO.
Box 26D Bainbridge, N. Y.

This Absolutely Guaranteed **Everwear Harness** for **All Leather Thong Stitches**

\$59.00 **\$5 down** easy payments

Made of best Oak Tanned Leather-Brass Trimmed

At your dealer's today—you can carefully examine it before buying—also other styles—no freight or express to pay.

Ask the thousands of farmers who have been using Everwear harness for years. They know because of its high quality that it pays to buy the Everwear brand.

REMEMBER, you are trading with your local responsible harness dealer who as our agent guarantees and stands back of Everwear harness.

McINTYRE-BURRALL CO., Green Bay, Wis.

Look for this (Everwear) on the harness

CONDON'S GIANT TOMATO
EVERBEARING

"QUEEN OF THE MARKET." Big Money-Maker. Large, solid fruit; excellent canner. To introduce to you our Northern Grown Live Seeds and Plants, we will mail you 125 seeds of Condon's giant Everbearing Tomato and our Big 1925 Garden and Farm Guide. Prices lower than ever. **SEND POSTAL TODAY**

CONDON BROS., Seedsmen
192-Pace Book, tells how, and what to plant.
Box 233 Rock River Valley Seed Firm, ROCKFORD, ILLINOIS

Get Low Prices on Berry Boxes and Baskets

Write for our Free Catalog! Shows you how you can save money by buying direct from the largest Berry Box and Basket Factory in the Country.

New Albany Box & Basket Co., Box 137 New Albany, Ind.

The Children's Hour

CROSS-WORD PUZZLES

Cross-word puzzles came in style
Only a short while ago
But everybody's working them
Any place we go.

Some folks sit up till three o'clock
Lost in the cross-words gnarls,
It's nearly dawn, before you'll hear
Their steps upon the stairs.

What's another word for mother
And another word for go
I've racked my brain with this one,
And yet I do not know.

Cross-word puzzles we are told
Help to elevate the mind
They haven't helped ours any
As far as we can find.

But of one thing we're quite certain
We'll tell it here to you
Everyone it's safe to say
Has got the cross-word puzzle blues.

—By Lillian Kent, Omer, Mich.

DEAR girls and boys: The motto colors and pin contest closed February 28th and there were so many good letters that I have been unable to complete the judging at this time. It looks like I am going to have to ask your help. If I do find I need your help I will tell you about it in our next issue, but in the meantime—let's have another contest and earn some money.

As our "read the advertisements" contests were so popular last fall I think we will have another one. I will ask you an even dozen questions and you must read the advertisements in this issue to learn the answers, and to the one sending in the correct answers to the first eleven questions and giving the best answer to question number 12 I will give \$3; to the one winning second prize I will pay \$1, and the same amount to the one winning third award. Here are the questions:

1—What company makes fence and puts a red sign on each roll?
2—What firm was established in 1872?

3—What is it that contains 35,000 bargains?

4—What company uses the slogan "Fertilizer Leaders of America"?

5—Who will send you free the book "7 Lessons in Judging Seed"?

6—What company is celebrating its 30th anniversary?

7—How long has Dodge Brothers built motor cars?

8—What company is "Spreader Specialists for Twenty-Five Years"?

9—Who will send you a booklet "Better Potatoes" if you write to them?

10—What is it that a certain company will send to you for 25c? What is the name of the company?

11—What company is it that manufactures a product of which the sales are 2½ times those of any other brand?

12—What advertisement in this issue do you like best and why? (Do not use over 50 words to answer this question. More than that number will count against you so be careful.)

In answering these questions write on only one side of the paper and be sure to sign your name and address at the top of each page. Also some place in your letter state your age.

The contest closes March 24th so you will have to mail your letter not later than Monday morning, March 23rd, but it would be better to send it in earlier if you can, and I am sure you can.—UNCLE NED.

OUR BOYS AND GIRLS

Dear Uncle Ned:—I have never written to you before but I have decided to do so now. My father takes the M. F. F. and I like it best of all the magazines we take. I always read the Children's Hour but have never written before. I guess I am too bashful. I wish some of the boys and girls would write to me and if they do I shall be pleased to answer them back.

Well, you will be wanting to know what I look like. I have long brown curly hair, brown eyes and freckles as countless as the stars. Sometimes (when my hair pulls) I say I will have it bobbed and then when I get in good humor I can't part with it. I am five feet tall and my birthday is the third day of May. I am ten years old, and am in the sixth grade. The lowest mark I got was eighty and that was in writing.

My father is a retired captain. He was captain of a boat for twenty years at

least and now we are living on a little farm out at North Street. I have a cat and a cow. My cat's name is Snowball, because she is as white as snow. My cow's name is Marie.

I think it is a splendid idea to have a club. I would like our pins to have on them "Bound to Win" and our colors Blue and Gold. I think the "Children's Hour" is a good name for our club when it is for the children. I think a good motto is "Be Just to All".

I will be glad when summer comes for I have a friend who lives up to the beach and I go to visit her every summer. My letter is getting rather long, so I will close with love to all the boys and girls of the Children's Hour. Your want-to-be niece,—Josephine M. Cowles, North Street, Michigan.

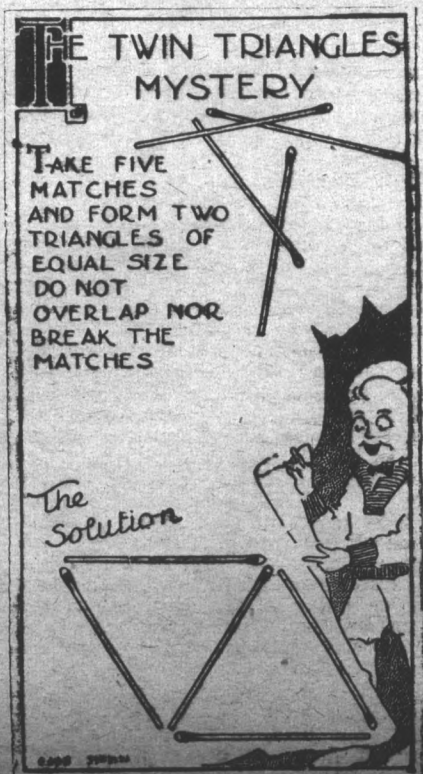
Dear Uncle Ned:—We have taken the M. B. F. only a short time but I am very interested in it and look forward until the next issue comes. I think the Children's Hour is a very interesting page. This is the first time I have written and I would be glad to hear from some of my cousins. I will be glad to answer them promptly. I suppose I should describe myself a little. I am fourteen years old and in the eighth grade. I have dark hair and eyes and a dark complexion. —Joe W. Wilson, Mason Michigan.

Dear Uncle Ned:—As I have never written to you since I became a reader of your page over three years ago, but have become a reader again about three months ago. I am sixteen years of age. My name is Wm. M. Maine. I think the following words would be good for our motto. "Work More Wish Less". I think the name—Willing Workers, or Helping Hand. Wm. M. Maine, (age 16), Vernon, Michigan.

Dear Uncle Ned:—So many of the cousins are entering the contest, so I thought I wouldn't be one of those not to enter. I think it is loads of fun to be in contests. I have entered a few contests before but I never won. But the motto is "if you don't succeed the first time, try, try again," isn't it Uncle?

You ask if we want motto and colors. I am sure I do anyway. I agree with you Uncle Ned to have our club called the Children's Hour. I am sure it would be a good name. Well for the motto which I think is satisfactory is "Be merry and gay and your work will grow lighter every day." Colors—brown and white. A picture of Uncle Ned is what I suggest to be on the pin. I agree with Reginald Hodges to have a correspondence scramble. I think it would be so much fun. I like to work on the cross-word puzzles, they make you think so hard. Well I have no more to write. Hoping I will not be disappointed, I am—Anna Stimac, Box 101, Engadine, Mich.

Dear Uncle Ned:—I would like to join your Merry Circle but I just can't seem to get the answers to the puzzles in time. I thought I would write any way but suppose the waste basket is waiting for this letter. Well, I never described myself. I am seventeen years old, have auburn hair and hazel eyes. I am five feet eight inches; some height you'll say but it comes in handy sometimes. I weigh 128 pounds. I am sending some verses, suppose the waste basket will see them too. Your would-be-niece,—Violet Heilig, Curtisville, Mich., Box 5.



HOW BILL BUCKED THE TIGER

(Continued from Page 17)

shares. She was right. I lost a \$10 share all right, for that was what the share was worth. \$10 each, but I had paid \$300 and was out about \$290 even if the shares were salable at par.

The Agricultural Society met next night. It was a wild session. No one stayed for lunch. No one wanted it.

But I got even, you bet. A few days later a fellow came along when I was away from home and told Maria he was a government inspector and that he was checking up on all poultry to see if they were disease free. So Maria and Mrs. Smith let him look at the flock and he said it would be necessary to treat them. He had the remedy and it was \$6 a box. He claimed he had to white-wash poultry houses, too, and as he started to work right away the women let him go ahead, and Maria paid him the \$3 when he finished. But she didn't buy any remedy. He was to come back the next day, as Maria explained she didn't have the money. When I got home and she told me about it, I was all suspicion. I called up the County Agent and he told me right away it was a fake. Next morning he called up again and said he had a telegram from Washington to arrest the fellow. So I got Hank Peters to issue the proper papers and as the County Agent was a deputy sheriff he came out and when our man arrived, we pinched him in a hurry. Claimed he was an Omaha man, but before we let him out of the county jail he paid back all the folks their money and I allowed him 50c for whitewashing the hen house. For once Maria and me worked together and took a lot of glory in hearing people tell how we saved the folks their money.

One thing about Maria, she just can't let an agent pass without biting. Course I get hooked a lot but I generally know it in time and besides, most of my investments are the kind that pay out, that is 'cept the one where I bought the nitrates. I can size up a situation and tell at once if it's wrong. Take the time the hog remedy agent was trying to sell the Smith boys a lot of stuff that was a sure cure for cholera. I knew right away it was a fake and when the agent says, "Boys, try this on me and if it don't work, no pay". I was watching and when he hauls out an order blank and wants them to sign, I asks to read it and finds he was getting them to sign a check. Say, what I told that fellow was a plenty. Why way back in 1906 I bought me some stuff and it never worked and it cost me \$39.50, besides three of my best shotes. Took it up with the company but they wouldn't do a thing. Claimed the best agent they had sold me that and he never told a lie. I wouldn't pay and blamed if they didn't go and get a judgment on me and I had to pay.

I have yet to see a hog remedy agent that's square or a company that backs up and says the agent's wrong. They just want the cash; I know.

(Continued in March 28 Issue)

M. A. C. TO CELEBRATE 70TH BIRTHDAY

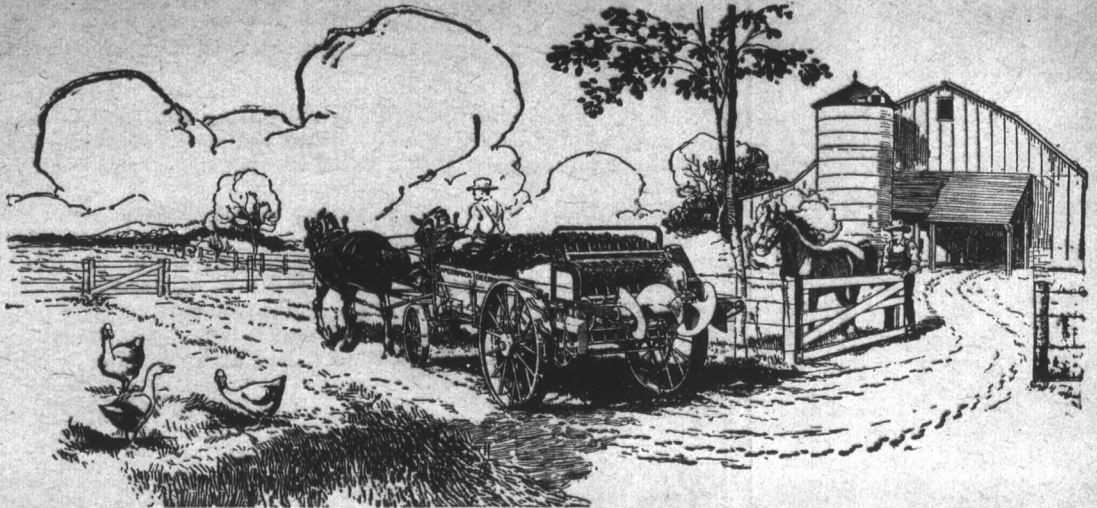
PLANS for a series of anniversary conferences, commemorating the 70th anniversary of the founding of the Michigan Agricultural College, the oldest land grant school in the country, have been approved by the state board of agriculture.

The conferences are to be held starting May 13. They will deal with engineering education, including the relation of the school to the state's industries, the education of farm women with special reference to the problems of farm women, and rural community organizations. A series of alumni conferences are also planned for the same dates.

In addition to this year being the 70th since the founding of the school it marks the 40th anniversary of the engineering department, the 30th on the home economics department and the system of Farmers' institutes and the tenth of the present scheme of agricultural extension work.—L. McC.

Farmers winter-feeding fat stock know that keeping them always just a little hungry keeps them on the gain.

"GOOD EQUIPMENT MAKES A GOOD FARMER BETTER"



Put Richness Back in the Soil!

ALL men who have made good money at farming have been very careful to keep their soil fertile and rich. There are poor years and good years in farming but the man who puts manure on his fields in the right way will reap real profits.

The McCormick-Deering Manure Spreader is one of the most valuable machines on the farm. It increases yields, pays for itself in a hurry and goes on building bank accounts.

It spreads smoothly and evenly, putting on just as light or as heavy a coat as you want. The pitchfork method of spreading cannot equal the yields that follow the McCormick-Deering. That has been proved many times. Besides hand spreading is hard work; the McCormick-Deering saves many hours of time and much hard labor. Its good strong beaters tear the manure rapidly and spread it well beyond the wheels.

INTERNATIONAL HARVESTER COMPANY

606 So. Michigan Ave. of America Chicago, Ill.
(Incorporated)

McCormick-Deering Spreaders

Note These McCormick-Deering Features:

1. Auto Steer.
2. Front Wheels Track with Rear.
3. Two All-Steel Beaters.
4. Wide-Spread Spiral.
5. Narrow Tread.
6. Self-Aligning Bearings.
7. Steel Main Frame.
8. Six Feed Speeds.
9. Positive Apron Drive.

Built in two sizes to fit small or large farms. See the spreader and its practical features at the store of your McCormick-Deering dealer.

Fill a Big Job

Qualify in Eight Weeks to Earn Real Money in the Auto and Tractor Business

Come to the great shops of McSweeney where thousands of dollars have been spent in the latest tool and equipment. Stay only eight weeks, then step out as an expert. My training made Louis Beimer a Foreman at the age of 24. It started O. H. Justus in what is now a big business. It enabled E. Rushfeldt to earn \$10 a day. It has helped hundreds of others to do as well or better.

Big Firms Need Men

I get calls every day from Garages, Battery Stations, Auto Repair, Welding Shops, and other successful firms for McSweeney men. The big fellows need trained men right away and they know where to come for them.

Railroad Fare Free

That's my proposition for a short time only to help fill these vacancies. But that's not all. If you write at once I'll give you the lowest tuition rate ever offered.

Get This Big Free Book

This large illustrated book tells how others are succeeding. It tells many things you ought to know about Autos and Tractors. Write for it and short-time offer now before it expires. Write to nearest school for it today.

McSWEENEY AUTO & TRACTOR TRAINING SHOPS

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SAVE at factory SALE

Get your copy of this big FREE Book. Take advantage of the biggest SALE in our 25-years history. Never have quality furnaces sold for less. Many styles—both pipe and pipeless. FREE plans! FREE service! Cash or easy payments—as low as \$10.00 monthly. Simple to install by our method—put your furnace up in a few hours by yourself. 48-hour shipments. Money-back guarantee. 30-day trial. 630,000 pleased customers. KALAMAZOO STOVE CO. Manufacturers 671 W. Rochester Ave. Kalamazoo, Mich. Get this big book. It's Free

A Kalamazoo Direct to You

FOR HIGH BLOOD PRESSURE

RHEUMATISM DIZZINESS OR CONSTIPATION

TRY Neu-Salts A RELIABLE EFFICIENT REMEDY

Trial Box WILL LAST MONTHS SENT POST PAID \$1

G and M CHEMICAL CO. 65 Milwaukee Ave. West DETROIT, MICH.

RENEWING STRENGTH

It's true that what you assimilate today becomes strength for to-morrow's task.

Scott's Emulsion

is an easily absorbed tonic-nutrient that seldom fails to build strength and resistance in those who utilize it.

Scott & Bowne, Bloomfield, N. J. 24-32

For Best Results Ship Direct

Detroit Beef Co., Detroit, Mich.

Dressed Calves
Dressed Hogs
Suckling Pigs
Live Poultry
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My Engine Will Do the Work of 6

Write now for facts about this wonder engine. Same engine gives 1 1/2 to 6 H. P. Gasoline or kerosene. Portable, light, and free from vibration. Requires no anchorage. Easy starting—no cranking. Pumps, saws, grinds and does all chores. Plenty of power for every purpose.

Low Factory Price—Free Trial Offer

Tremendous value. Thousands of satisfied users. Write now for details and free trial offer on this amazing engine.

Edwards Motor Co. Main St., Springfield, Ohio



Dress of lavender linen trimmed with Bias Tape in fine white lawn.

Girls' dress of striped cotton suiting combined with plain suiting and percale Bias Tape.



Our Spring Sewing Book

is full of new and clever ideas for summer dresses, sports clothes, lingerie and utility articles made with **WRIGHT'S BIAS FOLD TAPE**. Percale and lawn tapes in white, black and colors for tub dresses, fine taffeta silks to use on silk and wool materials and for millinery. Prettier clothes in less time and with less expense.

Send 10 cents in stamps

to cover cost of mailing, for new book and 3-yard sample of tape in fast color percale in any one of the following colors: Lavender, Pink, Light Blue, Alice Blue, Red, Brown, Navy, Reseda Green, Gray, Old Rose, Black, Yellow, Linen Color, Orange. **Wm. E. WRIGHT & SONS** Manufacturers Dept. 455 Orange, N. J.



Quickly clean!
Safely clean!
Thoroughly clean!
That's the short story of washday when you have the extra help of Fels-Naptha Soap!

Not only soap—but soap and naptha

The Remedy of 100 Uses



For Ills of All the Family

VICKS is good for all cold troubles—common colds, sore throat, bronchitis, catarrh, croup, tonsillitis and grip. These are all inflammations of the nose, throat or lungs. The ingredients—camphor, menthol, eucalyptus, turpentine, juniper tar, cedar leaf, etc.—make Vicks equally effective for inflammation of the skin such as cuts, burns, sores, bruises and skin itchings. An ideal household remedy—useful almost every day.

Write to Vick Chemical Co., Box 274 Greensboro, N. C., for a test sample.

VICKS

VAPORUB

Over 17 Million Jars Used Yearly

FOR SALE—DUNLAY STRAWBERRY \$3.50 per 1000; Gibson strawberry \$4.00 per 1000; 9 other varieties. Black Raspberry \$12.00 per 1000; Red Raspberry \$15.00 per 1000. A full line of trees. Write for prices.

FRED STANLEY, Bangor, Michigan.

WHEN WRITING TO ADVERTISERS PLEASE MENTION THE MICHIGAN BUSINESS FARMER



Edited by MRS. ANNIE TAYLOR

DEAR FOLKS: It has been a long time since I have said anything about styles in my letter but as spring will soon be here and many of us are thinking about some new clothes this year I think now is a good time to tell you about the materials and colors that are to be popular.

The most popular costume for the coming spring is the ensemble. The smartest wool materials for this costume are kasha, corded wools, wool cashmere, broadcloth, wool rep, soft twills, bordered materials; and the new silks of the ribbed varieties, satin, heavy silk crepe and crepe satin, novelty satin crepe and novelty faille.

The smartest colors are the various shades of beige from the pale shade of natural kasha to the creamy tans, the lighter browns, black, dark blue, gray-blue, almond-green and gray. The darker shutter green, shades of brick, henna and cranberry are also used. In combining colors it is smart to use two shades of the same color—dark blue and a lighter blue, beige and brown, etc., or to use the two sides of crepe satin. Almond-green is combined with gray or cream or beige, while blue and black can be used with almost any of the new shades, such as henna, royal blue, sea blue, etc.. Brown is smart with honey color, russet, apricot and terra-cotta.

Address letters: Mrs. Annie Taylor, care The Business Farmer, Mt. Clemens, Michigan.

Your Friend,
Mrs. Annie Taylor

WHEN GRANDMA SETS THE PANCAKES

By Anne Campbell

When supper was all over,
And we'd swept the crumbs away,
We had a game of Pedro,
Or the organ we would play.
We knew when it was bedtime,
Though the word was never said!
When Grandma set the pancakes,
It was time to go to bed!

We laid, if we were sewing,
All our goods and thread aside.
It was no use to argue.
We both knew it 'cause we'd tried.
The day was nearly over,
And the happy evening fled.
When Grandma set the pancakes,
It was time to go to bed!

We heard her as we whispered
While undressing in the gloom.
The sound of stirring batter
Drifted upward to our room.
We visualized the picture
As we doffed our flannels red.
When Grandma set the pancakes,
It was time to go to bed!

We saw her worn hands busy
In the humble room downstairs,
And scarcely paid attention
When our mother heard our prayers.
That breakfast in the morning
On the crimson cover spread!
When Grandma set the pancakes,
It was time to go to bed!

(Copyright, 1925.)

TRAINING CHILDREN FOR HOME LIFE

IF boys as well as girls are to be good homemakers they should see home life at its best. Added to their environment, the mother's training should give them an understanding of the conditions and principles which govern the life of the family. In school and home there should be taught, both by precept and practice, the best in the choice, preparation, and use of foods and textiles, the selection and care of shelter, and details of the processes involved in practical housewifery. These four subjects make for the full development of the physical life of the family, and boys as well as girls should have some understanding of most of the principles involved. The ethics of personal and family relationships, the details of public questions and their discussion, personal ideals, and spiritual values, should all be given sympathetic attention at home. Application should be made of the knowledge of these subjects gained in school to the problems of home life, as far as possible. Incidentally, the training of the children may help broaden the intellectual interests of the parents and the whole home.

DRY CLEANING CURTAINS IS BETTER THAN WASHING

THERE are very few curtains that will not look better dry-cleaned than washed," says Susan Z. Wilder, home economics extension specialist at South Dakota State College. If you are in doubt as to the outcome in washing curtains, always dry clean them.

"Washing curtains in water is the last method that should be used," she adds. "It is likely to destroy or deaden the color, remove the lustre

which can never be brought back, and pull the curtains out of shape so that they will not hang well. Any housewife can dry clean her own curtains but to get the best results it is necessary to observe the following simple rules:

Buy a high test gasoline.

Always use gasoline outdoors.

Work in the shade.

Do not rub the material too vigorously in the hands.

Never use a board.

Never heat gasoline on the stove. It may explode. Heat water hot, not boiling, and carry it outside the house. Remove the top from the gasoline can and set the can into the water to heat.

Do not press the curtains after they are cleaned in gasoline until thoroughly dry.

Following is the procedure recommended in dry cleaning curtains, brush them well or hang them in the wind so that all loose dirt is removed. Soak them in the gasoline a half hour. Stir them about and squeeze the gasoline through them but do not rub. Wring the curtains dry and hang them in the sun. Leave them outdoors from three to twelve hours so that they will dry thoroughly and lose most of the gasoline odor. If possible, leave the curtains out over night then bring them in, dampen and press with a hot iron.

There are special soaps on the market to use with gasoline for cleaning purposes, according to Miss Wilder. It is not necessary to buy the soap unless the curtains are very badly soiled. Even then it is not necessary because the curtains may be washed in one pan of gasoline and rinsed in a second. The gas removes all grease and the dirt will drop out. Any spot that remains after cleaning with gasoline is probably some substance that will not dissolve in gasoline. A careful sponging in clear soft water with a cloth of similar color will clean up everything.

THE JOY OF CANNED FRUIT

THE pantry shelf and its supply of home canned fruits and vegetables help wonderfully in providing three well planned meals a day. Winter's high costs make the cherished delicacies seem extravagant, but here is where the provident housewife has the advantage. A great many desserts may be made from the supplies of fruit on the pantry shelves. Common dessert that have been served year in and year out may become more attractive and appealing when made with canned fruit than with fresh. Canned peaches are splendid for shortcake and a pie made from this kind of fruit is delectable. Raspberries made into tapioca pudding or gelatine desserts lend finish to a well-balanced meal. Canned fruit may be used successfully as a flavor for winter ices or as a fruit in the favorite ice cream. Canned vegetables may be combined or used in many casserole dishes or in soups or scallops. A well seasoned white sauce gives added flavor to the vegetable.

Personal Column

Some Questions and Hints.—I have been reading THE BUSINESS FARMER every since we have taken it and quite interested in our page. I have never written before and would like to ask a few questions and give a few hints all of which I hope may be helpful to all readers.

Does anyone know what to do with "paper white narcissus bulbs after they are through blooming the first time so as to get more flowers from them? I have tried different ways and have had no success.

Does anyone know if potatoes are a good green food for hens and if so which way is the better to feed them, raw or cooked? How many should one feed a flock of 100 hens per day? Are they injurious to the hen's health?

Now for my helpful hints.

Use a square or oblong square-cornered cookie cutter to cut out cookies. Time is saved in the cutting and the baking as the corners fit in together and more can be cut and baked at one time. I also have a large tin that nearly fits the oven.

Here is a new way to use up old shirt bodies. When the sleeves wear out I use the old shirt bodies to make new sleeves. Stitch a straight piece in the underarm seam to prevent stretching and breaking the threads. Hem back placket hole on seam and sew on cuff. They wear a long time. This works well with underwear too.

Sometimes families like gravies better than meats and cannot make much from a small chicken or piece of meat and have it taste rich enough. Try beating an egg into your thickening for making more chicken gravy. You will not need quite so much thickening as the egg thickens. This is also good to increase bulk and flavor in beef gravy, but not as good as in chicken gravy.

I hope these hints will help someone and think perhaps if the questions could be answered in the paper they too would be helpful to others.—F. D., Portland, Michigan.

—if you are well bred!

The Ethics of the Introduction.—When introductions should be made and when not; which are justified and which are needless; to what degree they imply obligation, and a number of other points are not subject to hard and fast rules. Common sense, social tact and presence of mind must be relied upon to decide what is best in many instances. In larger urban centres introductions are usually taken lightly; in smaller communities more seriously. Convenience sanctions the less ethical procedure in the first instance and custom rejects it in the second. In the end the obligation—implied or actual—of an introduction are either met or denied in accord with personal preference. In the case of a lady the option rests with her—a gentleman who has been introduced must wait, when next he meets her, for her to bow or offer her hand. She may continue or end the acquaintance as she sees fit. In general:

1. Bow to all whom you may have met at a meal.
2. Bow to all whom you have met at a reception or with whom you have played cards, golf or tennis.
3. The acknowledgement of incomplete introductions is optional.

The Runner's Bible

Then shalt thou call and the Lord shall answer; thou shalt cry and He shall say: Here I am. If thou take away from the midst of thee the yoke, the putting forth of the finger and speaking vanity.—Isa. 58:9.

Nothing can yoke or burden one but one's thoughts—thoughts of hate, of fear, of lust, of greed, of evil in any form. It is better, however, to liken evil thoughts to veils which hide from one's eyes the Truth, the beauty of things which grow in the sunshine of Love. These veils are thick and of ugly color. They distort. Many there are who grope about all their lives because they wear such a number; they run into danger, injure themselves and others and finally in seeming darkness they lose their way. The truth is that they were all the time in the light, but they knew it not, for they would wear veils. God acts upon the assumption that everyone sees clearly, and who would suspect His ever present help when behind so many thicknesses of evil?

RECIPES

Baked Macaroni with Cheese.—One cup macaroni, 1 tablespoon butter, 1 tablespoon flour, 1 cup milk, ½ cup grated cheese, 1 teaspoon salt, ½ teaspoon pepper, ¼ teaspoon paprika. Boil macaroni in salted water until soft; drain and rinse with cold water. Put into buttered baking dish and cover with sauce. Cover top with grated cheese and bake 20 minutes in hot oven.

Whole Wheat Hot Cakes.—Two cups whole wheat flour, 4 teaspoons baking powder, ½ teaspoon salt, 1½ cups milk, 1 teaspoon molasses, 1 tablespoon melted shortening, 2 eggs. Sift together flour, baking powder and salt; add milk, mol-

lasses and shortening to beaten eggs and add to dry ingredients; mix well. Bake on hot, slightly greased griddle turning only once.

Crumb Muffins.—Two cups stale bread crumbs, 1½ cups milk, 1 cup flour, 2 teaspoons baking powder, ½ teaspoon salt, 2 eggs, 1 tablespoon shortening. Soak bread crumbs in cold milk 10 minutes; add flour, baking powder and salt which have been sifted together; add well-beaten eggs and melted shortening; mix well. Heat muffin tins, grease and drop one tablespoon of batter into each. Bake 20 to 25 minutes in hot oven.

Waffles.—Two cups flour, 4 teaspoons baking powder, ¼ teaspoon salt, 1½ cups milk, 2 eggs, 1 tablespoon melted shortening. Sift flour, baking powder and salt together; add milk and shortening to egg yolks and add to dry ingredients; mix in beaten egg whites. Bake well in greased hot waffle iron until brown; turn once. Serve hot with butter and maple syrup.

HOMESPUN YARN

Avoid colds by eating fruits and vegetables and drinking plenty of water.

An egg beater is useful for removing scum from cocoa, lumps from gravy, and for preparing popovers that melt in the mouth.

The best part of potatoes lies next to the skin. Rub the well cleaned skins with fat before baking, and they will be delicious.

Plain linen toweling with colored borders makes excellent and serviceable luncheon dories, much more easily laundered than tablecloths.

Aunt Ada's Axioms: One of the main differences between a cross word and a cross-word puzzle is that one of 'em tends to keep a man at home and the other doesn't.

A good resolution is to treat the porcelain sinks and tubs right this year; harsh abrasives and scouring powders take off both stains and finish.

AIDS TO GOOD DRESSING

BE SURE AND SEND IN YOUR SIZE

5019. A Neat and Dainty House or Morning Frock. Checked gingham was employed to make the pleasing style here portrayed. This model is also attractive in linen, percale, ratine or crepe. The Pattern is cut in 6 Sizes: 34, 36, 38, 40, 42 and 44 inches bust measure. If made as illustrated, it will require 5½ yards of 27 inch plaid gingham, and ¾ yard linen of percale for pockets, collar and cuff facings. The width at the foot is 1½ yards with plaits extended.

5020. A Pleasing Apron Model.—Cretone or chintz may be used for this design. It is also attractive in lawn, saten and other apron materials. The Pattern is cut in 3 Sizes: Small, Medium and large. A Medium size will require 2½ yards of 36 inch material.

5013. A Stylish Frock for the Women of Mature Figure.—Taffeta or faille would be very attractive for this design. As here portrayed facings of white satin are shown, with lace over chiffon for the vest. The Pattern is cut in 8 Sizes: Bust measure 40, 42, 44, 46, 48, 50, 52 and 54 inches and corresponding waist measure, 33, 35, 37, 39, 41, 43, 45 and 47 inches. The width at the foot is 1½ yards. To make the dress as illustrated for a 44 inch bust will require 4½ yards of one material 40 inches wide, with ½ yard of contrasting material for the collar and cuffs, and ¾ yard of chantilly or other lace all-over 20 inches wide.

5024. A Jaunty Style for the Growing Girl.—Flannel blocked with fine braid to simulate bias plaid was used for this design. It is equally attractive in plain material. It will develop well in taffeta or wool rep. The Pattern is cut in 4 Sizes: 8, 10, 12 and 14 years. A 12 year size requires 2½ yards of 36 inch material with ¾ yard of contrasting material for collar, revers, facing and vestee.

5028. A Comfortable Stylish Coat for a "Little Miss."—Tweed, kasha or broadcloth would be suitable for this model. It is also good for Teddy Bear cloth, chinchilla, velvet and other pile fabrics. The Pattern is cut in 4 Sizes: 4, 6, 8 and 10 years. A 6 year size requires 2½ yards of 40 inch material. Collar and cuffs of contrasting material will require ¾ yard.

5005. A New and Stylish Blouse.—This pretty model may be finished with short or long sleeves and with or without the facings at the lower edge. The Pattern is cut in 6 Sizes: 34, 36, 38, 40, 42 and 44 inches bust measure. A 38 inch size if made with long sleeves and the facings will require 3 yards of 32 inch material. Without the facings 2½ yards are required. With short sleeves 2½ yards are required. If cuffs on the short sleeves are made of contrasting material, this will require ¾ yard.

5030. A Comfortable Undergarment.—These Bloomer Drawers are especially suitable for stout figures. The lines are comfortable; the shaping provides extra fullness. The Pattern is cut in 4 Sizes: Small, Medium, Large and Extra Large. A Medium size requires 2½ yards of 36 inch material.

5031. A Practical Set of Infants' Garments. This outfit consists of a Yoke Dress, a Night Gown, a Sack and a Cap. One could use, voile, lawn or batiste for the Dress, long cloth or outing flannel, crepe or silk for the Sack, and lawn, silk, crepe de chine or poplin for the Cap. The Pattern is cut in One Size. If made as illustrated, the Dress will require 1½ yard of 36 inch lawn or nainsook, and 2½ yards of edging 3½ inches wide for the ruffle. The Gown will require 1½ yard of 27 inch material. The Sack ¾ yard of 27 inch material, and the Cap ½ yard of 18 inch material.

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When cheese gets stale, grate or grind it, and keep it in a covered jar for use in seasoning sauces, soups, and scalloped dishes. Try a little in a potato and onion soup to convince yourself.

Watch the sneezers; they spread colds easily.

Aunt Ada's Axioms: There'd be no fun in keeping house if there wasn't someone to clutter it up once in a while.

A hot soup or a creamed vegetable at noon would help the school child's lunch. Does your school serve a hot dish?

Cold fingers may be saved on wash-day by putting handkerchiefs and small pieces in a cheese cloth bag and then hanging the bag on the line.

It never snows so much that a man can't saw wood.

WOMEN'S EXCHANGE

If you have something to exchange, we will print it FREE under this heading providing: First—It appeals to women and is a bonafide exchange, no cash involved. Second—It will go in three lines. Third—You are a paid-up subscriber to The Business Farmer and attach your address label from a recent issue to prove it. Exchange offers will be numbered and inserted in the order received as we have room. —MRS. ANNIE TAYLOR, Editor.

No. 124.—Mammoth poppy seed and Dahlia bulbs for Gladioli bulbs or Sweet Pea seed.—Mrs. Richard Pakins, Harrisville, Michigan.

OUR BOOK REVIEW

(Books reviewed under this heading may be secured through The Michigan Business Farmer, and will be promptly shipped by parcel post on receipt of publisher's price stated.)

Table Service.—By Lucy G. Allen. A new and revised edition, with several new illustrations, of a work that has steadily grown in popularity since its publication in 1915. It is a clear concise and yet comprehensive exposition of the waitress's duties including not only the lay of the table and serving, but tray service, carving, the care of the dining room, etc. The book is invaluable to housekeepers. Price, \$1.75. Little, Brown and Company are the publishers.



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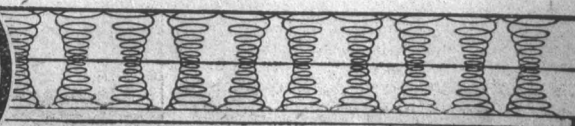
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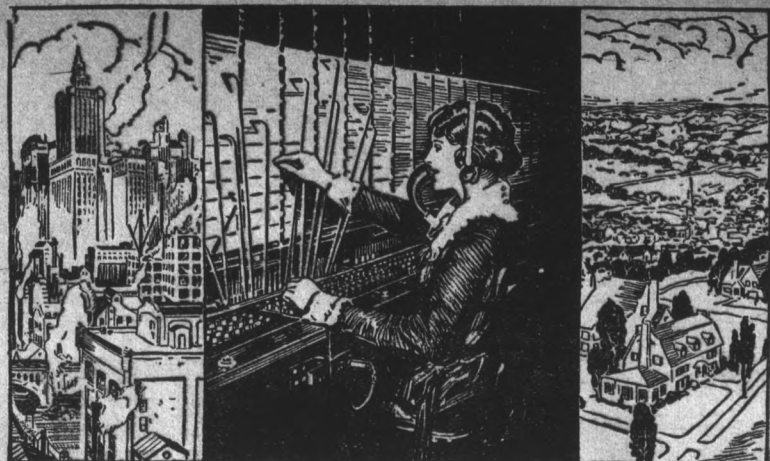
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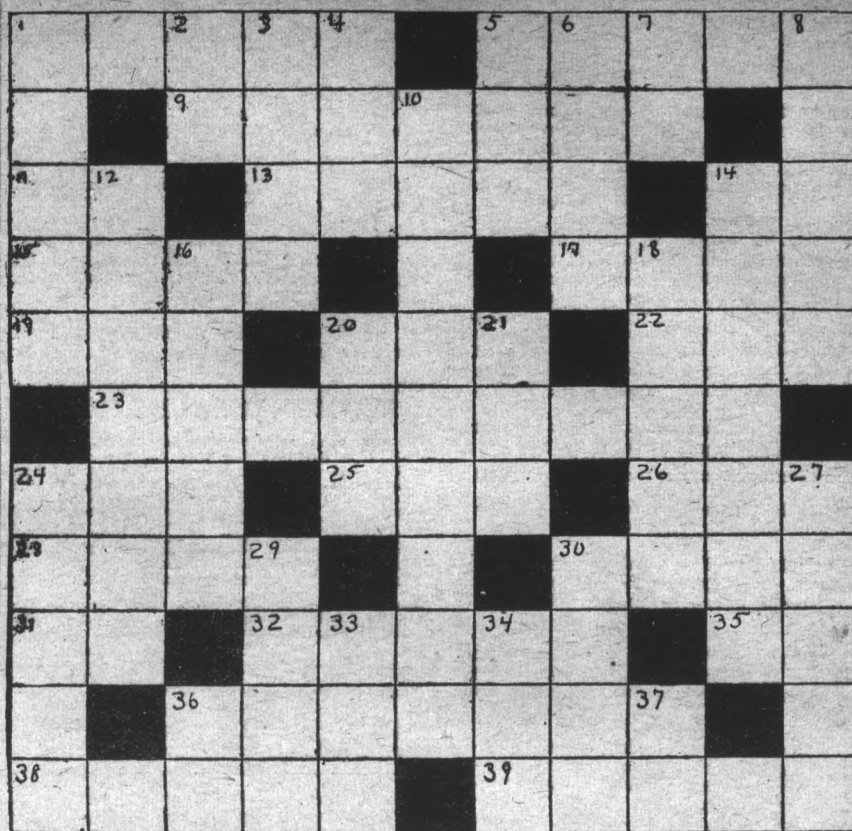


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CROSS-WORD PUZZLE NO. 10



SUGGESTIONS FOR SOLVING CROSS-WORD PUZZLES

Start out by filling in the words of which you feel reasonably sure. These will give you a clue to other words crossing them, and they in turn to still others. A letter belongs in each white space, words starting at the numbered squares and running either horizontally or vertically or both.

ACROSS

- 1—What every housewife dreads
- 5—Mistake
- 9—Cow with T. B.
- 11—Revised Version (abbr.)
- 13—A tender pig for eating
- 14—Postscript
- 15—Division of tennis games
- 17—Animal parent
- 19—A unit
- 20—Open (post)
- 22—Boy's nickname
- 23—Tool
- 24—Small viper
- 25—Physicians (abbr.)
- 26—One (German)
- 28—Cooking utensils
- 30—An Italian river
- 31—Definite article
- 32—Consumed
- 35—Proceed
- 36—Honors
- 38—Barter
- 39—Basin

DOWN

- 1—Trunk of the body
- 2—American Revolution (abbr.)
- 3—Army word for food
- 4—Exclamation of disgust
- 5—Greek letter
- 6—Decays
- 7—Railroad (abbr.)
- 8—To give a new setting for gem
- 10—To work together
- 12—Meat of the deer
- 14—Prattling
- 16—To entice into wrongdoing
- 18—Opposite to outer
- 20—Elderly
- 21—Winter's measures
- 24—Separate
- 27—Sheltered places
- 29—What plants grow from
- 30—Freshly; again
- 33—A city thoroughfare (abbr.)
- 34—Before
- 36—Royal Academy (abbr.)
- 37—Direction of the compass

The answer to this puzzle will appear in the next issue. Also, we will have another puzzle.

M. A. C. "AIR" SCHOOL CONTINUES THROUGH MARCH

WITHOUT stirring from their fire-sides farmers in Michigan and the middle west are being given the benefits of instruction in farm problems by the experts on the faculty of the Michigan Agricultural College through courses being broadcast from the college radio station WKAR.

The "air" school was started Mar. 2, when for two weeks lectures on farm machinery and home conveniences were broadcast. The courses are to be continued until May 8, different subjects being offered each two weeks.

Farmers who listen in on the lectures are asked to enroll with the director of short courses at the college at East Lansing. Those who enroll are sent briefs of the lectures given the day after they are broadcast. In this way those who are unable to tune in the college station because of air conditions or other reasons are able to keep up with the classes. Those who enroll are sent examinations at the end of the course. After answering the questions asked they are mailed certificates to show that they have taken and passed examination on the course.

The courses yet to be offered and the dates on which they will be given follow: Farm crops and soils, March 16 to 27; Poultry and livestock, March 30 to April 10; Home gardens, April 13 to 24; home makers course, April 27 to May 8. The lectures are broadcast from Monday to Friday night inclusive each week from 7:15 to 8 o'clock in the evening, eastern standard time.

The giving of the farm courses has necessitated changes in the broadcasting hours of the other programs at the college. Now the regular educational program will be given Monday evenings from 8 to 9 o'clock; Wednesday evening music will be put on the air from 8 to 9:15 o'clock

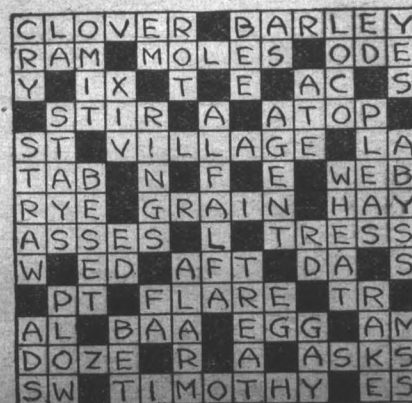
and Friday evenings from 8 to 9 o'clock the state departments provide programs. Each day at 12 noon the weather forecast is given and Saturday mornings from 12:30 to 1:30 o'clock a musical program for the Pacific coast is broadcast.—L. McC.

DATES FOR SUMMER COURSES SET

DATES during which the summer courses at the Michigan Agricultural College will be given this summer have been announced as from June 23 to July 31. Students taking the summer courses earn credit equal to that given for the regular twelve weeks course in the winter but take only one half the number of subjects that are studied in the winter as double class time is required to complete the summer courses in the limited time.

Courses in all divisions which include agriculture, home economics, applied science, liberal arts, engineering, and physical education are given.—L. McC.

ANSWER TO CROSS-WORD PUZZLE NO. 9



TICKET ENTITLES HOLDER TO
RIDE ANYWHERE IN HOLLAND

(Continued from Page 4)

wonder that it is difficult for us to compete with the Flying Dutchmen in the bulb business.

In these post-bellum days, passports are one of the nuisances of travel in Europe, especially when they have to be visaed at every little national boundary—at \$10.00 per visa.

Three days before we were to leave for Denmark, via Germany, I happened to think that I had not secured a German nor a Danish visa for my passport, and I knew that without it I would be put off the train at the boundary and sent back after one. Every other member of our party had attended to this detail except me. When I made this discovery we had just left Amsterdam for a two-day trip to the other side of the Zuider Zee and we were on a train headed north. We would be back in Amsterdam the following afternoon—but there is no German consulate in Amsterdam; I would have to go to Rotterdam which was in exactly the opposite direction from the way our train was going.

Mr. Bertholt, our guide, advised me to get off the train at Zwolle, the next big town, catch the first train back to Rotterdam, get my visas, and then go to Amsterdam and wait for my friends to come on the following day. He taught me one word of the Dutch language, which sounded like "Doorhandt" and which means "direct" or "without change", and then explained the kind of a railroad ticket that I held.

We had bought "Vacantiekaart" tickets, he explained to me, which had cost us seven and a half guilders each, or about \$2.75, which entitled the holder to ride anywhere in Holland just as long as he holds the ticket and cares to ride. The tickets are not taken up until one leaves the depot and until it is taken up it is good on any train, in any direction, anywhere in Holland. I could get off the train at Zwolle and if I did not leave the depot in the meantime I could ride right back to Amsterdam from where I had just come or could go to Rotterdam or any other place. Holland is so small that one can't ride very far anyway.

Very well, I had my Vacantiekaart and I knew my Dutch perfectly—my one word of it—and armed with this equipment I bade my friends goodbye at Zwolle to spend two days running all over Holland and hunting up Danish and German consuls, without even the friendly doctor to lend me moral support.

I stood around the station platform and inquired "Rotterdam doorhandt?" as nonchalantly, but as intelligently as I could of every uniformed man, whenever a train pulled into the depot—and there were many. They invariably said something to me—which I appreciated even though I didn't know what it was.

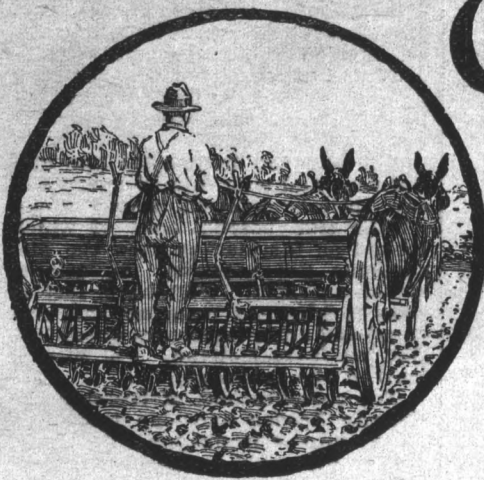
Finally I boarded a train and rode grandly out of town until the conductor came along and refused to honor my ticket. I couldn't explain it to him. A friendly Dutch sea captain who knew a few words of English interceded in my behalf and induced the conductor to compromise and let me ride as far as Utrecht. He put me off at Utrecht and the station master there put me on another train. This was a real "doorhandt" and took me clear to Rotterdam.

With the aid of a few policemen and a specially chartered messenger boy I located the Danish consul and paid him ten dollars to vise my passport. Then I located the German consulate and none of them could speak English. Finally the tallest one took my money and made a few notations on my passport, and the transaction seemed to satisfy us both.

Two hours after I hit Rotterdam I was back at the station saying, "Amsterdam doorhandt?" to every one in uniform again. I got as far as The Hague on my first attempt, and eventually, the same evening, I reached Amsterdam. During the day I had covered all of that part of Holland and was right back where I started from. And I'd done it all on one word of Dutch.

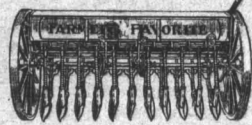
In Amsterdam I registered at the Dam Hotel—for that was the way I

(Continued on Page 24)

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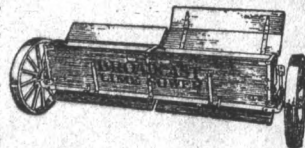
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Fumes Destroy Germs
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New booklet tells how to prepare pine-camphor vapor fumes in your home, that kills the germs, and relieves colds, that turn to pneumonia; relieves those who have colds, and prevents the spread of colds to other persons in the home. These searching vapor fumes find the germs and keep your home free of gripple-colds when there are epidemics. Booklet sells no medicine, only instructs what to buy at your home store and how to prepare home remedies at little cost. That are valuable to prevent sickness in the home. When colds hold on that develop into catarrh, and tuberculosis and other diseases these pine-camphor vapor fumes with home remedies, kill the germs, and help you back to health. Booklet treats on hygiene, how to use water for constipation, has valuable recipes, any one worth more than the price of the booklet. These home remedies are safe and will bring health into your home. You should have this booklet, that will prove to be more valuable than expected. Worth many times the price. Sent post-paid for 50 cents. Satisfaction or money returned.

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Complete READY TO MILK
Send for sensational offer! Milk 18 to 40 cows an hour—easy. Costs nothing to install. Easy to clean. Milks the human way—easy on the cows. 30 Days Trial—10 Year Guarantee—Cash or Easy Terms—a year to pay. Write for FREE BOOK. "How to Judge Milkers." Get yours now!
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Cal. 30, five shot. Barrel 25 1/4 in., total length 46 in., weight 9 1/2 lbs. Barrel and stock new. Sight mounted over receiver. This type used by A. E. F. Price, \$12.50. Ball cartridges \$3.50 per 100. Gunners cleaning kit 35 cents. 15 Acres Army Goods. New Catalog 1925, 60th Anniversary issue, 372 pages, fully illustrated, contains pictures and historical information of all American military guns and pistols (including Colts) since 1776, with all World War rifles. Mailed 60c. Established 1866.

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A Remarkable Home Treatment
Given by One Who Had It

In the year 1893 I was attacked by Muscular and Sub-Acute Rheumatism. I suffered as only those who are thus afflicted know for over three years. I tried remedy after remedy, but such relief as I obtained was only temporary. Finally, I found a treatment that cured me completely and such a pitiful condition has never returned. I have given it to a number who were terribly afflicted, even bedridden, some of them seventy to eighty years old, and the results were the same as in my own case.

I want every sufferer from any form of muscular and sub-acute (swelling at the joints) rheumatism, to try the great value of my improved "Home Treatment" for its remarkable healing power. Don't send a cent; simply mail your name and address, and I will send it free to try. After you have used it, and it has proven itself to be that long-looked for means of getting rid of such forms of rheumatism, you may send the price of it. One Dollar, but understand I do not want your money unless you are perfectly satisfied to send it. Isn't that fair? Why suffer any longer, when relief is thus offered you free. Don't delay. Write today.

MARK H. JACKSON

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Mr. Jackson is responsible. Above statement true.

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See
a De Laval
its
Superiority
is
Evident

Try
Let it prove
how much
cream it will
save

Trade
in your old
Separator as
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Balance in 15
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Compare an improved De Laval side-by-side with any other. See it yourself; and when you do you will not need an expert to tell you which one is by far the better designed and made, sure to last longer, do better work, and prove the better investment.

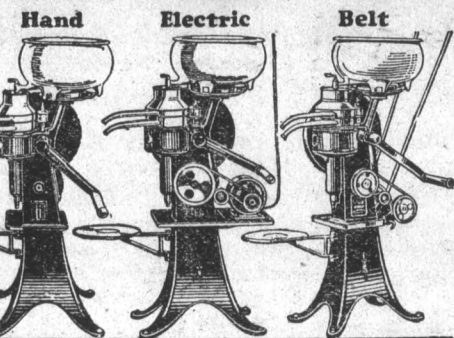
And if merely seeing does not convince you, go a step further and try a De Laval side-by-side with any other. Not one buyer in a hundred ever does that and fails to choose the De Laval. Your De Laval Agent will gladly arrange a trial for you.

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Your prosperity depends not on how
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CONSUMERS POWER PREFERRED SHARES

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WRITE FOR FREE LITERATURE
OR
"ASK OUR EMPLOYEES"

JACKSON

MICHIGAN

felt. In the evening one of those fascinating Dutch words on the advertising before a movie house caught my eye. It was "Breeksynnek" and pictures of Harold Lloyd were also displayed. I concluded that the feature of the evening at that show was apparently Harold Lloyd's picture "Safety Last". Thus was another word added to my vocabulary. "Vacantiekaart" meant a "vacation ticket" and "Verboten" meant "forbidden" and "ausgang" meant "out you go" and during the few days in Holland we found that each of us knew quite a few words.

But when we crossed the line into Germany and later into Denmark and saw entirely different shaped words on the sign boards, none of which looked as familiar as even the picturesque Dutch words, the colonel sighed and said, "Well, boys, just as soon as I learned 'ausgang' and 'oin-gang' and a few important words like that we leave Holland. I'm sorry I learned the language!"

The complications of crossing the German border and our triumphal entry into Copenhagen, Denmark, will be presented in the next installment.

Harry Vetch Says

DOES THE TAIL WAG THE DOG
AT M. A. C?

DEAR EDITOR: Seeing as most everybody is writting you about changing the name of MAC to something else I may as well horn in to, specially as the prose and cons wouldn't be compleat unless I did. I am again the purposed change for a lot of good reasons.

If it was to be called Mich. State Colleg you couldnt call the foot bawl teams Mich Aggies any more and then maybe the other foot bawl teams wouldnt be scared of them and they might axidently get licked some time. Besides that the fellows who make the headlines for the sport pages in the newspapers would have a hard time to think of any thing short and snappy like Mich Aggies and so they wouldnt put the team in the headlines and then nobody wouldnt go to MAC never no more.

The way it is now when some ignorant stranger says what is Mich Ag and what does MAC stand for any how we can ex plain that Mich Ag is short for Michigan Aggregation of Cloverkickers and MAC is its first letters. And if he is a smart stranger he will catch on that the Cloverkickers is pretty good goal kickers too.

While if it was changed to MSC it would be Michigan Shame Colleg because the folks there is ashamed of the name the way it is now. But I reckon it would be a better colleg if the folks wich is ashamed of it would go some place else and leave more room for real clover kickers and hog callers and tit pullers, wich folks are just as respectable, usually more decent and certainly more necary than them wich is ashamed of MAC.

I see in your paper some body called it a cow college, wich I would say is an undeserved complement wich might apply to the Wis Colleg of Ag. but MAC seems to be more of a bean and grape colleg. Wich reminds me of one winter I lived in Urbanana Ill. and they had a lot of college cows at the Ill Colleg of Ag. and the University milk was so good that no body could get it unless their name was on the waiting list for a couple of years and could give satis factory references. We didnt never suck-ceed in getting any of the milk but I would go to the dairy dept on the camp us and get their butter wich was called Corn Belt and it was just about the best butter you ever et.

This here business of wanting to change the name because the other depts has outgrewed the Ag makes it look like the tail had out growed the dog and now they want to call it a tail instead of a dog. But if that is it I would say call it a lamb and dock it. And probly it would be a bigger and better lamb for being docked. And anyway when the leglesslature makes a propriation for the lamb it wouldnt mostly go to grow more tail, wich seems to be the case now.

Over at Aims Iowa the colleg is called the Iowa State Colleg of Ager-culture and Michanic Arts by the official title but it is called Aims by everybody else, and if we quit calling ours MAC it probly will come to be just East Lansing. Now Mr. Editor

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Saginaw, W. S., Sales Manager.

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90 Wt. around 880 lbs. 68 Wt. around 750 lbs.
82 Wt. around 640 lbs. 88 Wt. around 550 lbs.
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Deep reds, dehorned, good stocker order. Real
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finished. Also heifers same quality. Will sell your
choice from any bunch.
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WE HAVE BRED HEREFORDS SINCE 1860.
Our herd bulls are International Prize Winners.
Stock of all ages for sale, at Farmers prices. Write
us for further information.
Feed Herefords that fatten quickly.
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Hereford bulls with Fairfax and Bonnie Bray
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Bull calves out of Dams up to 877 pounds fat.
Sired by Bulls whose Dams have up to 1011
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FOR SALE: ALL OR ANY PART, OF OUR
Federally Accredited Herd of Registered Holsteins
of all ages at less than current prices on same
quality. Quick sale desired.
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FOR SALE—REGISTERED AYRSHIRE BULLS,
fit for service, T. B. Tested. From heavy pro-
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POLLED SHORTHORNS YOUNG BULLS
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Brown Swiss yearling male and a bred heifer.
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HAMPSHIRE. NICE SPRING AND FALL
boars. Choice bred gilts for sale. 12th year.
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WARNING!

Stallion Purchasers

Be sure that the stallion you are buying has a
clean Michigan State Enrollment.
Purchase subject to approval for standness and
registry papers, by the Department of Agriculture,
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MICHIGAN HORSE BREEDERS' ASSOCIATION,
R. S. Hudson, Secretary, East Lansing, Mich.

HORSE SALE

Michigan Horse Breeders' Association
Farmers' Week, February, 1926

FIT YOUR HORSES

THEN LIST YOUR HORSES

WITH
R. S. HUDSON, Sec'y-Treas.
East Lansing, : : : Michigan

FOR SALE THE GREY PERCHERON
Imported stallion "Juriste", two hundred and
fifty dollars or will exchange for a work team.
R. G. PALMER, Belding, Michigan.

FOR SALE—ONE THREE-YEAR-OLD BEL-
gian stallion and one four-year-old Percheron
stallion. Both horses in good condition.
R. G. PALMER, Belding, Michigan.

I don't want you to get the notion I have any thing again mechanics and engineering at an ag colleg because one of the biggest things a business farmer needs is mechanical gumption so he can farm more with machinery and turn out sheaves and shotes like Henry Ford spills out flivers and there should be agercultural engineers to figur out how tile should be layed so as to drain off the water quickest and with least tile and to calculate how the barn and silos and grainery should be set and built and equipped so a fellow can do his chores without wearing out so much shoe leather and wasting a lot of time he might be in the field or listening to the radio.

I just bet you that if all the mechanics and engineering and chemistry at MAC was made to toe the they would have plenty to do and it would be a hole lot better for the farmers in Mich. Anyway if MAC don't figur these things out for the farmers there aint nobody else going to bother with it and then how are we going to keep up with the times and how can we make any money in our business unless we learn to do it with modern inventions like they do in other business.

And even if they change it to MSC it had ought to mean Mich Sodbusters Colleg and the S stand for Sows, Silage, Soils and Sharp Shares. And yet I don't mean, Mr. Editor, that it should be only a kind of farmers trade school. It had ought to be also a colleg in the best and truest meaning of the word, a place where farm boys and girls can go and at the same time they learn how to be expert farmers and farmwives they would also be educated, wich aint the same thing at all. Education as I see it is getting to be a bigger, broader person, a better citizen, an original thinker, and a more likeable neighbor. We need all in one institution a place to teach farming and to also educate farm folks, with as I say is two different things.

Any way this is my idea of agercultural education, wich may be all wrong because I aint never had much of it. Hoping this finds you the same I am, Yours truly, HARRY VETCH.

SWEET CORN FOR LIVE STOCK

What is your opinion of planting sweet corn to hog down in the early fall? Do you think it is better than field corn? Also Canadian peas for the same purpose. Do you think it would be advisable to plant soy beans in sweet corn for hogging down? My object is to get my hogs off in August if possible.—H. M. M., Shepherd, Michigan.

SWEET corn lacks the factors for converting sugar into starch, but fairly good results have been obtained by feeding sweet corn, especially to cattle which would consume the whole stalk.

I think you ought to get better results feeding hogs, to plant a medium early variety of flint corn since the flint would produce more pounds of grain per acre than sweet corn.

Canadian peas would make a good supplementary pasture. You understand the peas would have to be sown as early as you could get on the ground in the spring, hence in a separate field or part of the field containing the corn. Canadian peas if sown late will not do any good, nor mature early enough to be of much value.

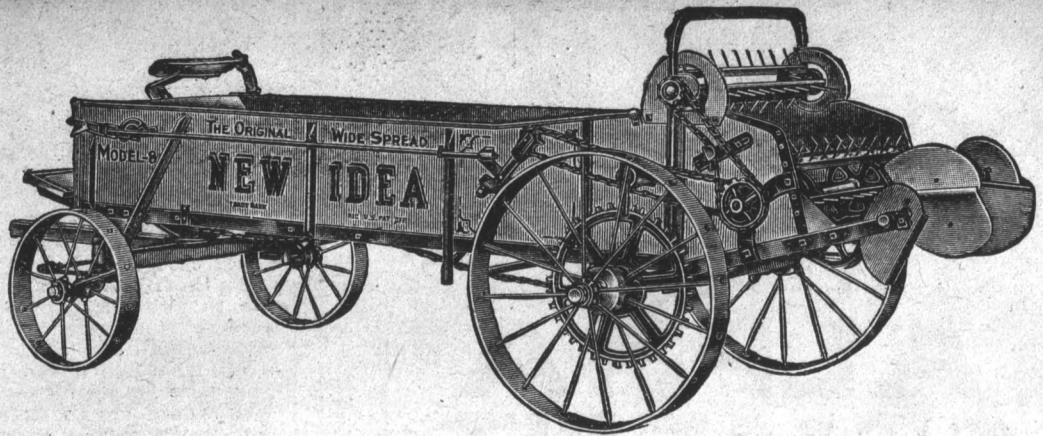
Soy beans planted in with the corn will also make a good supplementary feed.

To insure the success of your project to put hogs on the market before the end of August at least two things will be necessary, an early maturing variety of field corn and also an early maturing variety of soy beans. Sow both as early in May as you can. A medium early maturing variety of sweet corn would probably be about right. Sweet corn is more sensitive to frost than field corn, hence, can not be sown quite as early in the spring as either dent or flint corn.—J. R. Duncan, Instructor in Farm Crops, Michigan Agricultural College.

When farms are selling cheaply is a good time for the young man to buy.

Uncle Ab says the way to improve anything from a man's digestion to his church is to start at home.

Remember that the hind legs of a horse are his propellers, and that poor shoe fitting causes much lameness.



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CROP insurance through soil fertilization — protection for the farmer against wasted effort and lifeless soil! Two hundred thousand farmers have "insured" with us — guarded against the steady drain on soil vitality that has made so many acres barren. You can be insured in the same way—by buying the world's most efficient spreader.

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You feed and fatten your beef and pork for market. Your soil too must be fed and enriched—or you cannot depend upon a profitable yield. You must return to your land the rich harvest of chemicals you take from it each year. You must put into it the raw materials that it turns into waving grain and market produce.

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Below is the New Idea Transplanter—an up-to-the-minute implement for the truck gardener and grower who wants his planting done RIGHT. With the New Idea the work of setting out your plants can be done in double quick time with a minimum of labor and with the assurance that every plant is set correctly and is properly watered. An exclusive feature of the New Idea is that plant setters sit up front, away from the dust and danger of the rear wheels and under the direct supervision of the driver. See this better transplanter at your dealer's—or mail the coupon for catalog.



GIVEN DAINY VANITY CASE



Contains mirror, puff, spill-proof powder case. Sent without charge, postpaid—
PROVIDED, you know of any children or young adults with Club Feet, Infantile Paralysis, Crooked Spine, or Hip Disease, and will send this ad with correct names and addresses of parents (including street and number, or Rural Route and Box number), stating which one of the above named afflictions each of the children has; also children's ages. Positively no premium sent unless this ad is enclosed, with all the information asked for. Offer closes June 1, 1925. **McLAIN ORTHOPEDIC SANITARIUM, 903 Aubert Ave., Dept. 258C St. Louis, Mo**

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Cows in Milk, Springers, Bred and Open Heifers

Some with A. R. Records, all with A. R. Backing. Bulls of A. R. Breeding out of A. R. Dams with records up to 877 lbs. Fat in one year (1096 lbs. Butter)

— AT THE —

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These herds are Federal Accredited.

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Free Trial of a Method That Anyone Can Use Without Discomfort or Loss of Time.

We have a method for the control of Asthma, and we want you to try it at our expense. No matter whether your case is of long standing or recent development, whether it is present as occasional or chronic Asthma, you should send for a free trial of our method. No matter in what climate you live, no matter what your age or occupation, if you are troubled with asthma, our method should relieve you promptly.

We especially want to send it to those apparently hopeless cases, where all forms of inhalers, douches, opium preparations, fumes, "patent smokes," etc., have failed. We want to show everyone at our expense, that our method is designed to end all difficult breathing, all wheezing, and all those terrible paroxysms.

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PULLING OF WOOL

I have a flock of sixty ewes which are due to lamb the 15th of March and keep them in the basement of the barn which is warm and has plenty of ventilation. Would it be advisable to shear before lambing or wait until they were through lambing.—R. B. N., Sheridan, Mich.

THE pulling of wool by breeding ewes may be due to the fact that they have been confined too closely and heavily fed, resulting in irritating conditions of the skin, or it may be due to ticks or lice. In either case it would be advisable to shear them before lambing. If it was due to ticks or lice and the sheep were sheared real close by the shearing machine the ticks would leave before the lambs came, whereas if they were sheared after lambing the ticks would all go on to the lambs and greatly retard their growth. It would be best to shear these sheep sometime between the first and tenth of March and as soon as the weather is warm enough in the spring to thoroughly dip both the ewes and the lambs.—Geo. A. Brown, Professor of Animal Husbandry, Michigan Agricultural College.

VETERINARY DEPARTMENT

GARGET

We have a cow whose age is nine years this spring, that has never been sick till about a week ago, when one teat started to give garget but not bloody milk. The udder started to swell and cake and was very feverish and sore near the teat that gave garget milk. In a few days the teat went dry, also fever and cake left that part of udder and the teat cornerwise to it is just like it was and now is nearly dry. This cow was always a heavy milker and was giving a nice mess when she started to have udder trouble, but is nearly dry now. Never was known to go dry over a month. She will not freshen till May. She doesn't seem to be sick and eats good. Have been feeding her oats, hay and cornstalks. Any information you can give me regarding what to do for this udder trouble and what was the cause of it will be gratefully appreciated.—H. M., Midland, Mich.

THE cause of garget is usually infection which gains entrance through the teat opening or through the blood, more often, I think, the former. If the function of the gland tissue in the affected quarter has not been destroyed, the cow may come to her milk again at the next calving time.

Such cases are more successfully treated when taken early by bathing the bag well with hot water and stripping out the affected quarters once every two hours if not too sore and badly swollen and then apply camphorated oil two or three times daily and rub well in. A good cathartic is often indicated in the early stages of the disease. The internal administration of an internal antiseptic often proves valuable. Milking of the affected quarters should always be done into a pail of antiseptic solution and the hands washed very thoroughly in the antiseptic solution before milking another cow. The cow should be kept in a warm place free from drafts and given a laxative diet.—John P. Hutton, Associate Professor of Surgery and Medicine, Michigan Agricultural College.

WARTS

I have two cows that have little spots on their teats, one is like a wart and the other one is nearly as big as a little marble. At times they will bleed if you press on them, which will happen once in a while by milking. It is not growing and does not go away.—L. K., Alma, Mich.

I THINK the spots are warts. They should be cut out when the cow is dry. The skin should be thoroughly disinfected around the swelling, and, then the wart removed with a sharp knife or scissors after the cow has been properly restrained. The wounds should then be properly covered with sterile surgical cotton or gauze and retained in place by adhesive tape. The operation had best be performed by a qualified veterinarian.—John P. Hutton, Associate Professor of Surgery and Medicine, Michigan Agricultural College.

HEARING RESTORED OFTEN IN 24 HOURS

Amazing Results Secured In One Day
By Use of Virex Formerly Known
As Rattle Snake Oil

Deafness and Head Noises need not be dreaded any longer since the discovery of a widely known physician. Now it is possible for some of the most obstinate cases of deafness to be relieved in a day's time by the application of a prescription formerly known as Rattle Snake Oil. This treatment is meeting with wide success all over the country.

Mr. D. M. Lopes, a Pennsylvania man, says: "I used the treatment at night before retiring. The following morning I could hear the tickings of the alarm clock that I was unable to hear before. Now my hearing is restored perfectly after many years of deafness."

Mr. Ben Jackson, who lives in Indiana says, "Before I used Virex I could hear nothing. After ten days I could hear my watch tick."

Angeline Johnson, a Mississippi resident had been stone deaf for eighteen years. She says, "Virex has stopped my head noises and I can hear the train whistle 3½ miles away."

Roy Fisher, Iowa man, says, "I hadn't heard a watch tick for eleven years—now I can lay my watch on the table and hear it plainly."

Mr. W. A. Lumpkin, of Oklahoma, says, "After being deaf 38 years, I used your treatment only a few days and hear fairly well."

Mr. Anthony Chapman, of Michigan, says, "The terrible head noises have stopped entirely and my hearing is practically back to normal."

Deaf Baby Now Hears

Mrs. Ola Valentine, of Arkansas, says, "My little boy, now 5 years old, had been deaf since about 4 months of age. Now he hears very well and is learning to talk."

Mr. Mather Pelleys says, "My young son, deaf for years, has used Virex for only three days and he hears almost as well as ever before."

Such amazing reports come from all over this country and Canada. The prescription which is known as Virex, is easily used at home and seems to work like magic in its rapidity on people of all ages.

So confident are we that Virex will restore your hearing quickly, and to introduce this remarkable treatment to a million more sufferers, we will send a large \$2.00 treatment for only \$1.00 on ten days' free trial. If the results are not satisfactory the treatment costs nothing.

Send no money—just your name and address to the Dale Laboratories, 1017 Gateway Station, Kansas City, Mo., and the treatment will be mailed at once. Use it according to the simple directions. If at the end of 10 days your hearing is not relieved, your head noises gone entirely, just send it back and your money will be refunded without question. This offer is fully guaranteed, so write today and give this wonderful compound a trial.—(Adv.)

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Has all the features that insure big hatches—double walls, copper tank, complete nursery, perfect heat control through automatic trip burner, "Tycos" thermometer held so chicks can't break it when hatching. Detroit Breeders, too. Write for low combination price today!

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10 FREE If ordered in advance.
9c and Up 20 varieties, Pedigreed Cock-crels from head laying pens of Michigan guaranteed blood tested. Trap-nest 200 eggs up. Write for free circular before buying elsewhere.

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Hatched in Wishbone Incubators.

S. C. W. Leghorns \$13 per 100
\$62.50 per 500
\$120 per 1000

Barred Rocks \$16 per 100
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CHICKS BLOOD TESTED FOR BACILLARY WHITE DIARRHEA. Leading best strains as given below. **QUALITY** all along the line is our Motto. 100% Live Arrival Guaranteed—Postpaid prices on

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|--|-------|-------|-------|--------|
| Foreman Strain Barred Rocks | 10.50 | 20.00 | 50.00 | 100.00 |
| Selected Barred Rocks | 8.75 | 17.00 | 50.00 | 100.00 |
| Int. Laying Contest S. C. R. I. Reds | 10.50 | 20.00 | 50.00 | 100.00 |
| Extra Selected S. and R. C. R. I. Reds | 9.50 | 18.00 | 50.00 | 100.00 |
| White Rocks and Wyandottes | 9.50 | 18.00 | 50.00 | 100.00 |
| Tanored White Leghorns, Select S. & R. O. Reds | 8.50 | 16.00 | 75.00 | 150.00 |
| Utility and Barron White Leghorns | 6.50 | 13.00 | 65.00 | 130.00 |

Mixed, all heavies, \$13 per 100 straight. Mixed, all varieties, 100, \$12 straight. If it is real EGG LAYING QUALITY that you want in your Chicks, Keystone Chicks will fill the bill for you. They are Winners in Laying Contests in Michigan, Missouri, Connecticut, Canada, etc. Get our Literature giving these winnings before buying Chicks elsewhere or order direct from this ad. **KEYSTONE HATCHERY, Dept. 51, Lansing, Michigan**

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Pure bred, high quality, heavy laying, tested flocks. These pullets will make excellent winter layers. 100% Live Delivery Guaranteed. Bank Reference.

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| Various Varieties | 25 | 50 | 100 | 500 | 1000 |
| S. C. White & Brown Leghorns | \$3.75 | \$7.25 | \$14.00 | \$67.50 | \$130.00 |
| Barred Rocks, R. I. Reds | 4.50 | 8.50 | 16.00 | 77.50 | 150.00 |
| Anconas, (Extra Good Sheppard) | 4.50 | 7.75 | 15.00 | 72.50 | 140.00 |
| Mixed Chicks | 2.75 | 5.50 | 10.00 | 50.00 | |

"A liberal discount on orders booked before March 20." Extra Selected Stock, \$2.00 per 100 higher. All are hatched in modern machines. Each order carefully packed personally. Free Circular. **WINSTROM POULTRY FARM, Box C-5, Zeeland, Michigan.**

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CHICKS from heavy laying stock produced by MICHIGAN'S OLD RELIABLE HATCHERY. Pioneer Breeders and Hatchers, operating the best Hatchery in the State. Pure bred TOM BARRON and AMERICAN WHITE LEGHORNS, Anconas, Barred Rocks, Rhode Island Reds, Strong, well hatched Chicks from Hogshead, free range stock. By insured Parcel Post Prepaid to your door. 100% Live Delivery Guaranteed. 17 years experience in the business and giving absolute satisfaction to thousands. Get valuable illustrated Catalog free and lowest prices before placing your order elsewhere. **VAN APPELDORN BROS.**
HOLLAND HATCHERY AND POULTRY FARM, R-7-B Holland, Michigan

TYRONE POULTRY FARM

Let us sell you your 1925 Chicks from pure bred, select White and Brown Leghorns, Barred, White and Buff Rocks, R. I. Reds, Anconas, Black and White Minorcas, White, Buff, Golden and Silver Wyandottes, White and Buff Orpingtons, Black Spanish, Light Brahmas, etc. Of leading strains such as Barron, Parks, etc.
3000 CHICKS GIVEN AWAY TO OUR CUSTOMERS DURING 1925.
We guarantee 100% Live Delivery. Postpaid. Reference: Commercial State Savings Bank. Before ordering Chicks elsewhere, get our special circular containing our low prices and particulars about the 3000 PRIZE CHICKS.
TYRONE POULTRY FARM, Dept. 21, Fenton, Michigan.

PROGRESSIVE CHICKS

Sturdy, strong, vigorous Chicks from good, pure bred, bred-to-day flocks on free range. 100% Live Delivery Guaranteed.

| | | | |
|---------------------------------------|--------|---------|---------|
| Buff and Brown Leghorns, Anconas | \$6.50 | \$13.00 | \$60.00 |
| Barron Strain White Leghorns (Select) | 7.00 | 14.00 | 65.00 |
| Barred Rocks, S. C. Rhode Island Reds | 3.00 | 15.00 | 70.00 |
| Mixed Chicks for broilers | 5.25 | 10.00 | 45.00 |

Reference: Zeeland State Bank. Order right from this ad in full confidence or getting what you want. Free Circular. **PROGRESSIVE POULTRY FARMS, Box F, Zeeland, Michigan.**

ARTIFICIAL INCUBATION

The Third of a Series of Articles on Chick Raising, by Clarence M. Ferguson

In our last article we discussed natural incubation. With the advance of the science of poultry keeping, the demands have grown until the old hen has been superseded by her artificial competitor the incubator. The hen of today, however, was not the first to feel the competition of man made machines. In ancient Egypt and in China, eggs were incubated in incubators in prehistoric times. This method was crude. Large ovens or huts were made of clay and heated by fires. The eggs were placed on straw on the floors, and the temperature controlled by the operator with no modern devices to assist him.

Modern incubation depends on more accurate apparatus. Much credit for our modern incubation must be given to Charles Cyphers, who did a great deal of experimental work, and whose name is commonly connected with our modern incubators.

Commercial Hatcheries

Owing to the fact that baby chicks stand shipment well, we have in operation many commercial hatcheries. These poultrymen make a specialty of producing baby chicks in quantity. They have come to be a very important part of our poultry organization. It is estimated that they hatch over ten millions of youngsters each year in Michigan. Some of the concerns own all their breeding stock, while others buy eggs in the community. The quality of commercial hatched chicks depends on two factors, 1st, the quality of the parent stock, and 2nd, the proper operation of the hatching plant.

The prospective buyer of chicks must determine the quality of the parent stock and if possible should visit the hatchery and see the source of the stock. Too often the buying public are lured into the purchasing of chicks by far fetched ads with big headlines, written for the express purpose of catching the uninitiated. Fabulous claims of three hundred egg strains and sex guarantee should be closely investigated. An occasional three hundred egg hen may appear in the remote ancestry of some few individuals who are producing eggs for commercial hatcheries, but a strain of birds that consistently produces a predominance of such performers has yet to be produced.

Many of our hatcherymen are doing very constructive breeding, using good common sense in the selection of breeding stock, carefully culling the flocks and selecting the males. These are the breeders who can be relied upon year in and year out to supply you with quality chicks.

Blood Testing

Every year thousands of baby chicks die from Bacillary White Diarrhea, a disease carried over in the egg from the parent stock. This disease is being combatted by blood testing the parents. Where possible buy stock from blood tested hens. While one test may not eliminate the disease it at least indicates that the hatchery is attempting to put clean stock on the market. The agglutination test is one requiring considerable bacteriological technique, and should be done by one who has been trained along this line.

Private Hatching

Many farmers, poultrymen and fanciers prefer to do their own hatching. This means they require a suitable basement or incubator room and suitable machines.

We have on the market several reliable well built incubators and many others built cheaply to sell. In choosing a machine do not let your better judgment be overcome by an attractive price. Buy only machines that are standard and known to be of good quality.

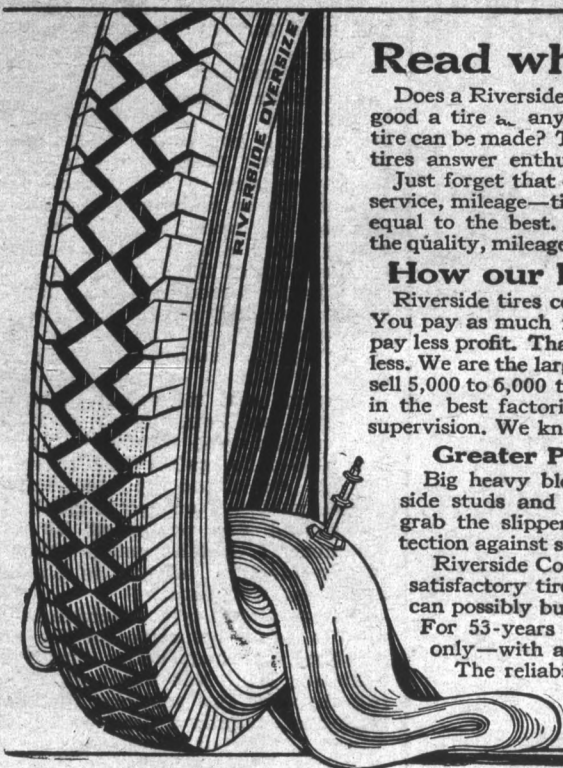
Incubation Houses or Cellars

To successfully operate the average incubator, it is necessary that a suitable room or cellar be used. The basement of the house is usually quite all right for the ordinary small plant incubation. The requirements for an incubation cellar are few and simple, namely: 1, an even temperature; 2, Good ventilation; 3, Plenty of moisture.

Basements usually have a fairly even temperature and adapt themselves better to incubation than other

(Continued on Page 28)

Riverside Oversize Cord Tires and Tubes



Read what the users say

Does a Riverside Cord last as long as any tire? Is it as good a tire as any tire made? Is it as well made as a tire can be made? Tens of thousands of users of Riverside tires answer enthusiastically—"Yes!"

Just forget that our prices are low. Compare quality, service, mileage—tire for tire, and Riverside Cords stand equal to the best. There is a big saving in price—and the quality, mileage, service is all that you get in any tire.

How our low prices are made

Riverside tires cost as much as other tires to make. You pay as much for fabric, rubber and labor. But you pay less profit. That is why Riverside prices are so much less. We are the largest retailers of tires in the world. We sell 5,000 to 6,000 tires per day. Riverside Tires are made in the best factories—on our specifications, under our supervision. We know their quality.

Greater Protection against Skidding

Big heavy blocks of live rubber and extra thick side studs and the husky ribs of Riverside Cords grab the slippery roads and are your greatest protection against skidding.

Riverside Cords are thus the safest tire, the most satisfactory tire and the most economical tire you can possibly buy. Why pay more?

For 53-years Ward's have sold "Quality" goods only—with a definite "Money Back" guarantee.

The reliability of Montgomery Ward & Co. is beyond question. You can not buy a tire with a better guarantee.

"A pair of Riverside Cords have already given me one year's service on rough mountain roads, and they have never been off my car. You can't beat Riverside for good road service."
James A. Kipe,
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Danvers, Mass.

"A Riverside Cord on my Buick, with your heavy duty tube, has run 15 months, in use every day, and it still has in it the same air put in 15 months ago. 'That's going some!'"
D. S. Robbins,
Las Cruces, N. Mex.

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LAKEVIEW POULTRY FARM

Tancred Strain
WHITE LEGHORNS
Park's BARRED ROCKS
Single Comb & Rose Comb
RHODE ISLAND REDS

SUPERIOR CHICKS
IN ALL BREEDS

Missed One Day in
Two Years

Coleman, Mich., Jan. 10, 1925.

Lakeview Poultry Farm, Holland, Mich.
"I have a flock of nice Rhode Island Reds which came from your poultry farm and in two years they have missed but one day in laying. Please send me a catalog for this year.—Mrs. Mabel Nelson Long."

That's only a sample of what Lakeview flocks are doing.

Wh. Leghorns—B'd Rocks—R. I. Reds
White Leghorns, Barred Rocks and Rhode Island Reds vie with each other in high production. Our Leghorn stock is Pure Tancred. Barred Rocks pure Park's strain. Our catalog not only tells what chicks to buy but how to grow them into strong pullets.

LAKEVIEW POULTRY FARM
R. R. 8, Box 3 Holland, Mich.

PURE BRED CHICKS

250 to 280
Egg Strain
pedigreed males head
our famous flocks of
Tancred American
and Tom Barron Eng-
lish White Leghorns,
Sheppard's Famous
Mottled Anconas, Park's Bred-
to-Lay Rocks. Our birds won
first prizes in egg production
class at Holland and West Mich-
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through generations for high egg production.
Prompt, 100% live delivery, prepaid, anywhere
east of the Rockies. Prices low. Order early to
get chicks when you want them. Our beautifully
illustrated, instructive Free chick booklet will give
you much valuable information. Write for your
copy now.

Silver Ward Hatchery, Box 30, Zeeland, Mich.

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Producing
Baby Chicks**

Tancred and Barron W. Leghorns. S.
C. R. I. Reds—Park's Barred Rocks.
High quality, low in cost. Satisfac-
tion and 100% live delivery guaran-
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"NOT A KICK IN A MILLION FEET"

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roof should cost ?

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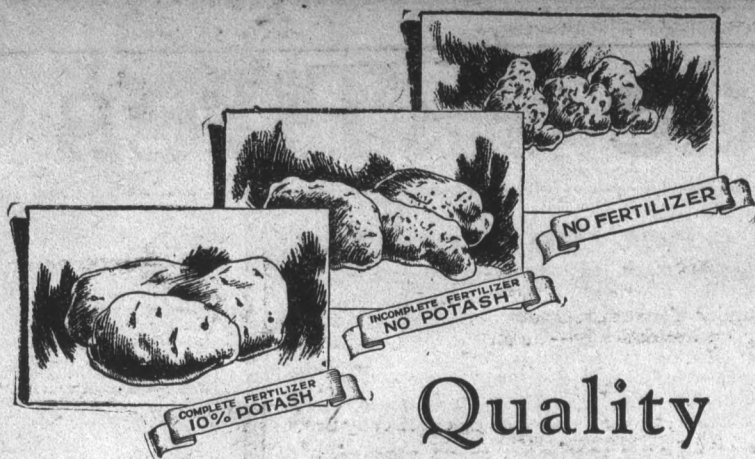
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Quality

THE use of sulfate of potash produces tubers of cleaner appearance and of more uniform size—many soil and crop authorities report.

The above illustrations, taken from actual photographs of potatoes grown by L. E. Davis of Van Buren County, Mich., show the value of sulfate of potash.

Improve the quality of your potato crop this season. Ask your dealer to supply you with a mixture containing plenty of sulfate of potash.

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Genuine German POTASH

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English Type White Leghorns

The Deep Bodied Hens With the Large Combs That Produce the Large White Eggs.

The chicks we offer you this year are from extra selected hens, sired by males out of hens that laid 270 eggs in 365 days, these males being sired by a male from a 300-egg hen. The price asked for them is very reasonable. They will bring you bigger profits and absolute satisfaction.

You will be benefited by our 15 years experience hatching and shipping chicks. Our stock grows up uniform in size, has great vitality and brings big returns in our customers' hands. Let us mail you our catalog with prices. 100% live arrival guaranteed.

Nine Weeks Old Pullets in May WOLVERINE HATCHERY

H. P. WIERSMA, Prop., R. R. 2, Box 98, Zeeland, Mich.



YEARS OF EXPERIENCE

Our 15 years of work and experience in breeding and hatching chicks qualifies us as S. O. DEAN in the Poultry Industry College. We own and operate a real Poultry Farm of 20 acres, not merely a Hatchery. Our Free Catalog will give you an excellent idea of this Farm—Get it now. We have specialized in White Leghorns for many years. Chicks at following prices. 100% Live Delivery Guaranteed.

| | 25 | 50 | 100 | 500 | 1000 |
|---|--------|--------|---------|---------|----------|
| S. C. White Leghorns, Extra Quality..... | \$4.00 | \$7.50 | \$14.00 | \$67.50 | \$130.00 |
| Barred Rocks, Reds, Anconas..... | 4.25 | 8.00 | 15.00 | 72.00 | 140.00 |
| White & Buff Rocks, White Wyandottes..... | 5.00 | 9.00 | 17.00 | 80.00 | 155.00 |

Ref. Royal Oak Savings Bank. Order direct from this ad in full confidence. DEAN FARM AND HATCHERY, Box 22, Birmingham, Michigan

STOP, LOOK, BABY CHICKS—100% live delivery

Chicks from healthy pure-bred flocks especially culled for egg production. We have been in business for 18 years. Due to increased demand we have enlarged our plant. 25% down books order.

| Varieties | Prices On: | 50 | 100 | 500 | 1000 |
|--|------------|---------|---------|----------|------|
| Anconas, Wh. & Br. Leghorns..... | \$7.00 | \$13.00 | \$62.00 | \$120.00 | |
| Br. & Wh. Rocks, S. C. & R. C. Reds..... | 8.00 | 15.00 | 72.00 | 140.00 | |
| Black Minorcas..... | 8.00 | 15.00 | 72.00 | 140.00 | |
| Wh. Wyandottes, Buff Rocks..... | 8.50 | 16.00 | 75.00 | | |

Buff Minorcas 20 cents straight. Satisfaction Guaranteed. Ref: First National Bank, Morenci. MORENCI HATCHERY. S. E. Rupp, Prop., Box H, Morenci, Michigan.

HUNDERMAN'S CHICKS

FIRST CLASS CHICKS \$10 per 100 and up. From pure bred flocks on free range, culled by an expert. 100% Live Delivery Guaranteed. Postpaid prices: \$3.50 50 \$6.50 100 \$12.00 500 \$57.50 1000 \$115.00. English S. C. White Leghorns..... 3.50 50 6.50 100 12.00 500 57.50 1000 115.00. Barred Rocks, S. and R. C. Reds..... 4.25 8.00 15.00 72.00 140.00. Mixed assorted, 25, \$3.00; 50, \$5.50; 100, \$10.00. Ref: State Commercial Savings Bank. Order to-day. You take no chances. Free Catalog. HUNDERMAN BROS., Box 37, Zeeland, Michigan

STAR QUALITY CHICKS

It pays to buy the best and Star Quality can't be beat. Special high grade, selected carefully, bred from S. C. White Leghorn flocks. Mated to Pedigreed Tancred Males bred from hens with records up to 295 eggs per year. Only strong vigorous fowls are mated to produce our Chicks. Write at once for catalog and price detail.

STAR HATCHERY. L. Tinnholt. Box T. Holland, Michigan.



rooms of the house. If the hatching plant is to be of any size however, a special building should be used to provide the best conditions.

Ventilation can be most easily supplied by dropping the windows in from the top and allowing circulation of air.

The cellar should be supplied with an egg room which can be darkened and used for candling and handling the eggs.

Incubator Operation

We have among the small machines, two common types, namely: hot air and hot water. The hot air machines are more simple and have less apparatus to get out of order. The hot water machines heat the egg chamber by radiation from a coil in which water is heated and circulated by the heat of the lamp. This principle is preferred by some since it gives a slightly more uniform temperature and is not as readily affected by outside changes as the hot air type.

Among our mammoth machines we have two common types in use. The cabinet type in which the eggs are placed in galleys or trays and the air circulated by electric fans. These machines occupy a small floor space and are preferred by many commercial hatcherymen where a steady electric current is available to operate the fans.

The sectional type machine is built on the same principle as the small machine, the heat being supplied by radiation from hot water pipes passing through the sections to a heating plant, usually a hard coal heater.

Care of Incubator

Before starting to hatch, thoroughly overhaul the machine and make sure the lamp, heating device, and control are all in good working condition.

Level the machine up carefully and operate for a few days before setting.

Read carefully the manufacturer's instructions until you are familiar with the operation.

Trim and fill the lamp regularly every day. Do it after handling the eggs. Oily fingers may kill the developing chicks.

Keep the wick turned to give an even flame.

Keep the burner clean to avoid smoking and danger from fire.

Note carefully the amount of flame required to maintain an even temperature.

Set the thermostat to check the heat and be sure it is working before the eggs are put in.

Temperatures

The average temperature of eggs under a hen is 103 degrees, but it may vary from 101 to 104 degrees. In cabinet machines, when the air is forced to all parts of the egg the temperature is kept somewhat lower. In sectional machines where the eggs are on single trays, a difference of two to three degrees may exist between the bottom and the top of the egg.

Position of Thermometer

The common practice is to set the thermometer on the eggs with the bulb in contact with the eggs. Some prefer to hang the bulb over the eggs about an inch above them. This system has the advantage of not having to remove the thermometer when the eggs are taken out, but it must be remembered that a temperature of about 1 degree higher should be recorded with the bulb in this position.

During the first week a temperature of 101 degrees and 103 degrees should be maintained, allowing it to go to 103 degrees, but not over 104 degrees for the latter part of the period. A temperature over 104 degrees is dangerous and the checking device should be set to open to prevent the heat reaching this degree.

Turning and Cooling

The process of turning eggs during incubation is necessary. If the eggs are allowed to remain in one position the yolk floats to the top of the egg. The developing embryo then sticks to the shell and would develop abnormally and in this abnormal position, would not hatch. The embryo must be supplied with oxygen which is supplied through the albumen. More air must be absorbed from the air cell and distributed through the albumen.

It is not necessary to completely turn each egg. The usual method is to remove a few of the eggs and roll



Tancred, Barron, Hollywood

Three in one—this tells in a nutshell the unusual merits of Town Line White Leghorns.

We have blended the three most famous egg types in the world. The result is a triumph.

Our pen at the International egg laying contest of 1924 outlanded the pen from one of their renowned ancestral farms by 95 eggs; laid 201 more than the average of two pens from any other famous farm and more than 84 of the 100 pens entered. (Figures on request.)

Also made best display in production class at Zeeland show of 1924.

Anconas—Barred Rocks—Brown Leghorns: Our Special Star W. L. Matings are headed by Tancred, Hollywood and Barron males of 250-290 egg ancestry. Anconas by Sheppard males. Price only 18c each; 17c in 500 lots. Other matings at 14c and 13c each.

5% Discount on all prepaid orders placed 30 days before shipment. Live delivery guaranteed.

TOWN LINE POULTRY FARM

R. R. 1. Box 19 Zeeland, Mich.



ROYAL HATCHERY & FARM
ZEELAND, MICH.

OUT IN FRONT AT CONTEST

The Royal White Leghorn pen at the International Egg Laying contest of 1925 led the entire field for the first two weeks. For the succeeding two months they were a close second in the Leghorn division, then on Jan. 30 went ahead and on March 1 still led all the Leghorns.

Such birds speak for themselves. We have thousands like them, mated to pure Tancred cockerels whose dams laid 225 to 299 eggs in a year.

75% of Our Sales Are To Old Customers: 100% live arrival and good condition guaranteed. Write for catalog and prices at once.

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

Good Chicks FREE CATALOG

In Business For 22 Years

White and Buff Leghorns and Hatching Eggs

Barred Rocks, R. I. Reds

MEADOWBROOK FARM

HENRY DE FREE SONS

R. R. 1, HOL LAND, MICH.

WASHTENAW Baby Chicks

Pure-bred carefully culled and selected. Hundreds of satisfied customers. Our chicks will improve your stock and increase your profits.

| Prices (prepaid) on: | 25 | 50 | 100 | 500 |
|-------------------------|--------|--------|---------|---------|
| Ed. Rocks..... | \$4.25 | \$8.00 | \$15.00 | \$72.00 |
| R. I. Reds..... | 4.25 | 8.00 | 15.00 | 72.00 |
| Wh. Rocks..... | 4.50 | 8.50 | 16.00 | 77.00 |
| Wh. Wyandottes..... | 4.50 | 8.50 | 16.00 | 77.00 |
| Wh. & Br. Leghorns..... | 3.75 | 7.00 | 13.00 | 62.00 |

Order early. Ref: Farmers & Mechanics Bank, Ann Arbor. One fifth down. 100% live delivery guaranteed.

WASHTENAW HATCHERY, R5, Ann Arbor, Mich.

CHICKS THAT LIVE

From sturdy, healthy free-range flocks. Pluffy, lively youngsters that should grow fast, and get on an all-around egg laying basis. From carefully mated high-egg-producing strains, tested and culled to insure exceptional vigor and laying ability. This stock and our scientific hatchery produce chicks that live, grow fast, lay early. Selected for uniform size and color so they will grow into beautiful flocks of which you'll be proud. Place your order before our output is taken by others. Order now for present or future delivery. Leading varieties. Live delivery guaranteed. Postpaid. Write for new chick booklet. H. L. CARL, Box 101, Montgomery, Mich.

LOOK!

150,000 chicks 9c up. From highest-producing contest layers. Free circular. Hatching eggs, 10 chicks free with early orders. Lawrence Hatchery, 27, Grand Rapids, Michigan.



High Grade Stock At Prices You Can Afford to Pay

Bred for eggs, not show feathers. Every chick from our farm is of a proven egg laying strain. But they win beauty prizes also.

English Barron Leghorns

The strain that has been making egg laying history ever since Tom Barron entered his first pen in America. We breed them upward—watch our flocks the year around to make sure only good birds remain.

toerat Barred Rocks

They occupy the same preeminent position among Rocks that Barron birds do among Leghorns.

Brown Leghorns

All our flocks have free range—thus grow dependable, healthy and strong.

CHICK—EGGS—PULLETS

We outfit you in any kind of stock you prefer. Our new catalog will tell you all about it. Send for your copy.

Great Northern Poultry Farm
Zeeland, Michigan, R. R. 4. Box 57



Barron White Leghorns Sheppard Anconas White Wyandottes

The foundation of our English White Leghorns is from the Pennsylvania Poultry Farm, with trapnest records of 270-300 eggs behind it. Its quality has been kept up by the most careful culling.

300 Egg Anconas

Sheppard Strain Anconas have records in the 300 class and lay so consistently that they are known as 20th Century Egg Machines.

Evergreen Wyandottes

Our White Wyandottes are of the Evergreen strain, steadily among the leaders in egg laying contests.

Send for Catalog and Price List and get your order in early to avoid disappointment. Chicks will be shipped when specified.

RELIABLE POULTRY FARM

R. F. D. 1, Box 48

ZEELAND, MICHIGAN



CHICKS, EGGS PULLETS

Guaranteed to be from high producing stock.

EGGS \$5 per 15

From Aristocrat strain in exhibition exhibition Barred Rocks and Fairview Reds.

CHICKS

\$15 per 100.

Special Star Mating Barron White Leghorns and Mottled Anconas. Selected Utility Rocks and S. C. Reds. \$13 per 100—Selected Grade A Barron White Leghorns and Mottled Anconas. Catalog free.

FAIRVIEW POULTRY FARM
Box 204 Zeeland, Michigan.

WORMS IN CHICKENS

Do you know that worms in chickens cause much of the sickness and losses? Do you know how to tell when worms? Do you know how to remedy worm troubles? How to avoid them? Read the new, free 64-page book by Geo. H. Lee, inventor of GERMOZONE, the famous poultry remedy for roup, diarrhea, etc. Tells also about important troubles and diseases, not only of poultry but also of hogs—information you would have to pay many dollars for. A million copies already requested. Get one now free at the leading drug or seed store in your town, or send stamp to:

GEO. H. LEE CO., Dept. 108 Omaha, Neb.

Pure Bred Baby Chicks

Our flocks have been thoroughly culled for years for heavy egg production. 100% live delivery guaranteed.

S. C. W. Leghorns \$6.00 \$12.00 \$57.50 \$115.00

R. I. Reds and B. P. Rocks 8.00 15.00 72.00 140.00

Catalog on request. Bank reference.

Baby chicks with a future.

THE A. D. RICHARDSON HATCHERY
Box B. Dundee, Michigan.

BABY CHICKS

We have just the chicks you have been looking for, the large, strong, vigorous kind from free range flocks that have been culled for heavy egg production. English White Leghorns, Anconas, Rocks, Reds. Shipped prepaid parcel post. Safe arrival guaranteed. Ask about 8 wk. pullets. Catalog free. Gilt Edge Poultry Ranch of Zeeland, Michigan.

WHEN WRITING TO ADVERTISERS PLEASE MENTION THE MICHIGAN BUSINESS FARMER

the others with the palm of the hand. It also is advisable to move the eggs about in the tray, moving these in the center to the outside. This aids in maintaining an even temperature, particularly if there is an unevenness in temperature.

Cooling naturally takes place during turning unless the eggs are turned by a mechanical device. They should be turned and cooled twice a day from the third day until the eighteenth day when the chicks will begin to chip the eggs. The cooling operation gives the eggs a chance to absorb more oxygen from the fresh air. The time of cooling will vary with room temperatures and other such factors. It is safe to say that during the first week the eggs should not be cooled longer than five minutes in a room at 60 degrees, but toward the latter part of the hatch 15 or 20 minutes should be all right.

Ventilation and Moisture

The careful observation of the evaporation of the egg will be the best guide to ventilation and humidity. An excess of moisture and lack of ventilation will reduce evaporation, consequently the air cell will remain smaller than it normally should. When the egg is put in the machine the air cell is small, not over 1/8 of an inch deep. Under normal conditions the air cell will be about 1/4 inch deep to 3/4 inch deep on the eighth and 5/8 inch by the fifteenth day. By the nineteenth day it will have grown to about 3/4 inch. The eggs should be candled frequently and the size of air cell examined. This inspection should cover a number of eggs since a slight variation will exist in individual eggs due to shell texture.

If insufficient moisture is being supplied it may be added by wetting down the floor and walls of the cellar. It may be even necessary to moisten the eggs. This is frequently done in case of duck eggs which require greater humidity than hen eggs.

Candling

The eggs should be candled at least once and better twice during the hatch. The usual practice is to candle on the seventh and fourteenth days. The infertiles can all be taken out on the seventh day, leaving more room on the trays. On the fourteenth day any germs which have died can be taken out. This also gives one an opportunity to study the size of air cell. Infertile eggs removed at the end of the first week are quite all right for food or for chick feeding purposes.

During the hatching period leave the eggs quite undisturbed and maintain an even temperature. When the hatch is complete remove the shells and eggs and allow the chicks to dry off. The incubator door may be opened to allow extra ventilation and lower the temperature.

Essentials of Successful Hatches

1. Good eggs from good stock.
2. Fresh eggs hatch better than those that have been held.
3. The best machines are cheaper eventually.
4. Test the thermometer.
5. Be regular.

Our next article will deal with pedigree hatching.

FRUIT GROWERS TO MEET AT BENTON HARBOR

SEVERAL hundred fruit growers and farmers will attend the meetings of the Berrien County-State Horticultural Society which will be held at Benton Harbor, Michigan, March 18th and 19th in the new R. B. Collis building on Elm Street.

Exhibits of horticultural supplies and machinery will be a feature of the meetings. Space for these exhibits is in charge of James Hickey, Jr., Benton Harbor, Michigan.

An interesting two-day program has been arranged.

To work more horses to the man helps get the most out of man labor.

The farmer should be careful about buying things which are above their pre-war prices unless they are expected to pay for themselves quickly.

The farmer who repairs machinery in winter, and uses rainy days effectively, puts himself ahead of the driving duties of spring.

Uncle Ab says it is well to ask people to help with that community enterprise; they like to be useful.

PAN-A-CE-A

takes care of the little-chick ailments

INDIGESTION — Diarrhea — Leg Weakness — Gapes.

It will pay you to look well to the digestion of your flock right from the start.

Indigestion is responsible for most of the bowel troubles.

Add Dr. Hess Poultry Pan-a-ce-a to the ration daily.

Pan-a-ce-a contains Nux Vomica; that promotes digestion—calls into healthy action every little chick organ.

Pan-a-ce-a contains Quassia, which creates a healthy appetite.

Pan-a-ce-a contains Iron to enrich the blood, essential to little chick growth.

Pan-a-ce-a regulates the bowels—keeps the chick's system free from poisonous waste materials.

No indigestion, no diarrhea, no leg weakness, no gapes, where Pan-a-ce-a is used.



REMEMBER—When you buy any Dr. Hess product, our responsibility does not end until you are satisfied that your investment is a profitable one. Otherwise, return the empty container to your dealer and get your money back.

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Tancred Holly-wood
EGG BRED Barron
for 19 YEARS
Brown Leghorns Anconas Barred Rocks

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Wingarden HATCHERY & FARMS
ZEELAND, MICH., BOX B

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Eckhard and Tom Barron W. Leghorns—Heavy Type Brown Leghorns—R. C. and S. C. Rhode Island Reds—Rhode Island Whites—Sheppard's Anconas—Park's Barred Rocks

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

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Satisfaction Guaranteed. Write Now. White Leghorn and Barred Rock pullets after May 1, at low prices.

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Once a customer always a customer. "Last year I was more than satisfied with your stock, but this year I am just surprised."—J. T. Stevensville, Michigan. Write for full particulars on pedigree, etc.

PIONEER POULTRY FARM
R. R. 10 Holland, Michigan



Improved English White Leghorns

Box C.

CHICKS, ACCREDITED BY STATE. Leghorns, Anconas, \$13.00; Rocks and Reds \$15.00; Wht. Wyandottes, B. Orpingtons, Minorcas \$16.00 per 100. 100% live delivery guaranteed. Circular on request. Joseph Amster, Paw Paw, Mich.

S. C. BUFF LEGHORN CHICKS FROM CARE-fully culled stock on free range. J. W. WEBSTER, Bath, Michigan.

MARKET FLASHES

Farmer's Buying Power Is Increasing

The Farmer Who Held His Hogs Makes Nice Profit

By W. W. FOOTE, Market Editor.

FARMERS are getting nearer a square deal in what they buy and sell than heretofore, and they are spending more money for farm equipment and other things than in recent years. Chicago mail order houses are making greatly increased sales, and one such big firm reports sales for the first two months this year aggregating \$43,114,682, showing an increase of nearly 16 per cent over sales made in the same time last year. Wonderful things have taken place recently in the hog market, and a boom of extraordinary proportions has occurred, far exceeding anything anticipated by most owners. Cattle, too, have been selling extremely well at lately advanced prices, while prime lambs sold a short time ago for \$18.25 per 100 pounds, making handsome returns to owners. The grain markets too are in strong position, with wheat reacting after temporary breaks in prices, and selling for May delivery within a short time above \$2 a bushel. That appears to many people a fair price, and thus far it has broken sharply every time it has touched that figure. Of course, it is impossible to tell how high it will go, and there is always the possibility of holding on too long. According to most accounts, there is the promise of a normal acreage of the several grains, with some pointers of an increased wheat and corn acreage. In parts of Iowa loan companies are lending \$100 an acre on good farm land and \$125 an acre on the best farms. As a general rule, these companies do not loan more than 40 per cent on land valuations; so it is inferred that the best farms are appraised at from \$250 to \$300 an acre. The number of farm foreclosures is fast decreasing, and fewer farmers are borrowing money to buy additional acres. In short, farmers are becoming more conservative, and the "little farm well tilled" is more popular than it was a few years ago. Silos, tractors and improved farm machinery are the winners these days, and every acre is worked by advanced farmers so as to produce as much as possible.

Large Trading in Grain

Much of the time there is lively trading in grain on the Chicago Board of Trade, mainly in wheat, as has been the rule for many weeks, and wheat prices are far higher than a year ago, whether the market is advancing or declining. After wheat approaches the \$2 a bushel figure it collapses on liquidation and short selling, and late sales of May wheat were made around \$1.80, that price comparing with \$1.11 a year ago. Trade has gone over to the July future largely, with late sales at \$1.62. Unquestionably the remarkable boom in the different grains has checked purchases, and a few days ago a break in rye to \$1.57 for May delivery brought in the first export demand of consequence in several days, sales at the seaboard being estimated at 300,000 bushels, including a cargo to Norway for May shipment. A year ago May rye was selling at 71½ cents. Oats for May delivery sell around 54½ cents, comparing with 47 cents a year ago; while May corn sells at \$1.31, comparing with 81 cents a year ago. Flour follows the same course as wheat, and it dropped 30 cents the other day with the decline in wheat. Crop expert Michaels says: "The wheat trade has reached a stage where theories of scarcity are not working out fast enough to suit the average operator. Larger export clearances, smaller receipts, and heavy foreign buying are said to be necessary to revive general interest on there is a mixed situation in corn and the bull side. In the coarse grains a very bearish feeling in oats. The large supplies are a big factor in influencing trade sentiment."

Wonderful Advance in Hogs

Many times the writer has advised farmers to hold on to their hogs and mature them well, this advice being

based on the well authenticated fact that the great bulk of the swine in the corn belt states had been mostly marketed much earlier than usual with a view of saving the feeding of high-priced corn. Many farmers were afraid that hogs would not advance much in prices, and so many were of this belief that by glutting the market with light weight hogs they brought about the recent abnormal conditions, prices on some days advancing as much as 50 cents per 100 pounds. It now looks like a hog scarcity which will put prices for fresh and cured hogs products to such high levels as to curtail their consumption. Already they have had big advances, and more may be expected to follow. The exports of provisions have been for weeks running much smaller than a year ago. Hogs marketed in Chicago recently have averaged 225 pounds, being four pounds lighter than a year ago and seven pounds lighter than the five year average for corresponding weeks. The spread in prices has narrowed materially, and the bulk of the hogs sell within a range of 45 cents, with heavy butchers bringing only 20 cents above the best light bacon weights. It is startling to look back and recall that a year ago hogs were selling at \$6.25 to \$7.55. Combined receipts in twenty markets for the year to late date amount to 8,777,000 hogs, comparing with 9,641,000 a year ago and 6,874,000 for the corresponding time in 1922. A short time ago hogs sold at \$12.90 to \$14.25, comparing with \$10.90 to \$12.40 a week earlier. Only 132,466 hogs were received in Chicago last week, comparing with 197,297 a week earlier and 193,694 a year ago. Eastern shippers took half of the week's receipts.

Fat Cattle Good Sellers

With smaller receipts of cattle in Chicago recently, prices have had a rise, so far as the medium to good grades were concerned, the best lots selling at no more than steady prices. The production of beef is profitable where carried on properly, and experienced stock feeders are making it. Average cattle prices advanced 25 cents during the first week of March, with the bulk of the steers going at \$8.75 to \$11.25, common steers at \$7.65 to \$8 and the best yearlings at \$11.25 to \$12.25, while the best

heavy steers sold at \$11.50. Stockers and feeders sold mostly at \$6.75 to \$8, a few going as high as \$8.50 to \$8.75. Owners of fat steers are making good profits.

Poor Alfalfa Seed

Several states have met with such serious losses from the use of poor alfalfa seed that steps have been taken to remedy the matter, and it has been demonstrated beyond a doubt that the farmer who considers price alone in buying seed and gets the cheapest seed offered gets a small chance of obtaining good seed. Alfalfa seed can be had this year high in quality at reasonable prices, but it must be bought from dependable sources, and farmers are cautioned to beware of price bargains and false advertising. To protect the grower and to place the alfalfa crop on a safe basis, farmers have formed a cooperative organization, the Federated Seed Service, and arrangements have been made for the distribution of alfalfa seeds of known origin, including hardy varieties, that are certified as to source and quality. According to J. F. Cox, executive secretary of the Federated Seed Service, alfalfa growers have had nearly 1,000,000 acres of this crop die from winter kill, causing a loss of more than \$10,000,000, all because they unwisely bought 15,000,000 pounds of unadapted Argentine seed. Mr. Cox says the failures of alfalfa where severe winters occur are largely due to the use of seed produced in mild regions. He advises farmers to get adapted seed of known origin as well as high purity. Failures have been so common that in the alfalfa growing regions there is one-fourth less alfalfa grown in this country than there was ten years ago, according to Mr. Cox's information. Failures from unadapted seed became so common in Michigan that a law was passed establishing the right to have the source of the seed known. As a result the acreage has been greatly increased in that state. This information has been obtained from an interview published in the Chicago Tribune.

WHEAT

In spite of the recent slumps the wheat market is full of believers that prices will again advance as high as they have been at any time during the last few months, and there are many who see prices at new high levels. During the fortnight ending Saturday, March 7, prices advanced to \$2 a bushel but before the close were down 18 cents.

CORN

The receipts of corn exceed the demand and the market is lower and easy.

OATS

Oats are not in good demand at present and the market is easy.

RYE

Following the trend of other grains rye is easy at lower prices.

BEANS

Prices in the Detroit bean market advanced during the fore part of the fortnight ending March 7 but last week an easy feeling came into the market and prices declined. The present low level of prices at Detroit plainly indicate that the law of supply and demand has little to do with determining what they shall be.

POTATOES

Bad roads are responsible for a decline in the receipts of potatoes and at the same time there is a fair demand. The market is firm and unchanged.

THE LIVE STOCK MARKET

MICHIGAN CENTRAL STOCK YARDS—Detroit, Mar. 10.—Market strong, full and steady. Good to choice yearlings, dry fed, \$9.50@10.50; best heavy steers, dry fed, \$8.75@9.50; best handy weight butcher steers, \$7.75@9; mixed steers and heifers, \$6.50@7.75; handy light butchers, \$6@6.75; light butchers, \$5@5.75; best cows, \$5.25@6.25; butcher cows, \$4.25@5.25; common cows, \$3@3.50; canners, \$2.25@3; choice light bulls, \$5@6.50; heavy bulls, \$4.50@5.50; stock bulls, \$4@5; feeders, \$6@7.25; feeders, \$5@7.25; stockers, \$5.25@6.50; milkers and springers, \$45@70.

Veal Calves—Market, one dollar lower. Best, \$14@14.50; others, \$5@13.50.

Sheep and Lambs—Market, twenty-five cents lower and slow. Best lambs, \$17.50; fair lambs, \$16@16.75; light to common lambs, \$9@13.75; yearlings, \$13.25@13.75; fair to good sheep, \$8@8.75; culls and common, \$4@6.25.

Hogs—Market prospects, 10 cents lower. Mixed hogs, \$14.15@14.25.

CHICAGO.—(U. S. Department of Agriculture) Hogs—Light and light butchers strong; best 220-lb average, \$24.25; bulk 175 to 225-lb average, \$14@14.10; 150-160-lb average, mostly \$13.75@13.90; heavy butchers, 5 to 10c lower; bulk \$14@14.15; estimated holdings, 4,000; heavy weights, \$13.80@14.20; medium weight, \$13.75@14.25; slaughter pigs, \$12@13.15. Cattle.—Compared with two weeks ago, better grade heavy steers, slow, weak, heifers, yearlings, stockers and feeders, 25 to 40c higher; fat she stock 25 to 25c up; spots more; calves steady to 50c higher; mostly 50c up; heavy steers, \$11.50; average weight 1,400 pounds; best long yearlings, \$12.35; handy weights, \$12; bulk prices follow: Fed steers, \$8.75@10.75; fat cows, \$4.75@6.75; heifers, \$7@8.50; canners and cutters, \$3.25@4. Veal calves.—\$11.50@13; feeders, \$7@7.75. Sheep.—Compared with week ago follows: Lambs.—Strong to 25c higher; fat sheep, 50c to \$1 higher; feeding lambs, 25c higher; week bulk prices follow: Desirable weight woolled lambs, \$17.50@18; top, \$18.25, extremely heavy kind, \$15.50@16; recently shorn lambs, \$12.50@14.50; fall shorn, \$16; fat ewes, \$9@10.50; feeding and shearing lambs, \$16.75@17.75.

EAST BUFFALO.—Cattle.—Active, strong, shipping steers, \$8@10.50; butchers, \$9.50@9.75; yearlings \$8.50@12.50; heifers, \$4.50@8.50; fair to choice cows, \$3@6.50; canners and cutters, \$2@3; bulls, \$3.25@6; stockers and feeders, \$4@7; fresh cows and springers, active and strong, \$20@110 per head. Calves.—Slow; choice, \$1 lower; \$14.50@15; fair to good, \$12.50@14; culls, \$1 lower; \$8@12; heavy, \$6@8; grassers, \$3@5.



Week of March 15

THE week of March 15 begins in Michigan with clearing weather and colder temperatures. Temperatures during the greater share of the week will average from normal to considerably below.

About Tuesday there will be a slight moderating of the temperatures in Michigan that will be the forerunner of a severe rain, sleet and snow storm accompanied with dangerous gales on water and land.

THE BUSINESS FARMER'S MARKET SUMMARY

and Comparison with Markets Two Weeks ago and One Year ago

| | Detroit March 9 | Chicago March 9 | Detroit Feb. 24 | Detroit 1 yr. ago |
|------------------|--------------------|--------------------|--------------------|----------------------|
| WHEAT— | | | | |
| No. 2 Red | \$1.81 | \$1.80@1.83 | \$1.90 | \$1.12½ |
| No. 2 White | 1.81 | 1.80@1.83 | 1.90 | 1.13½ |
| No. 2 Mixed | 1.81 | | 1.90 | 1.12½ |
| CORN— | | | | |
| No. 3 Yellow | 1.26 | 1.17@1.20 | 1.25 | .88 |
| No. 4 Yellow | 1.21 | 1.11@1.15 | 1.20 | .80 |
| OATS— | | | | |
| No. 2 White | .58 | .53@.54 | .55 | .51 |
| No. 3 White | .57 | .48@.52 | .54 | |
| RYE— | | | | |
| Cash No. 2 | 1.45 | | 1.55 | .71 |
| BEANS— | | | | |
| C. H. P. Cwt. | 6.00@6.10 | 6.65@6.75 | 6.10@6.15 | 4.75 |
| POTATOES— | | | | |
| Per Cwt. | 1.14@1.17 | 1.15@1.25 | 1.06 | 1.43@1.50 |
| HAY— | | | | |
| No. 1 Tim. | 16@17 | 20@22 | 16@17 | 23.50@24 |
| No. 2 Tim. | 14@15 | 16@18 | 14@15 | 21.00@22 |
| No. 1 Clover | 14@15 | 16@17 | 14@15 | 20.50@21 |
| Light Mixed | 15@16 | 18@20 | 15@16 | 22.50@23 |

Tuesday, March 10.—Wheat and oats steady. Corn unchanged. Bean market firm. Potatoes in demand. Cattle slow to steady. Hogs unchanged.

These conditions will last through Wednesday and probably Thursday. Immediately following this storm there will be a sharp change to colder and clearing but by the end of the week renewed storms of sleet and snow will visit the state with more strong winds.

Week of March 22

If the cold weather of the past storm period passes off normally and does not hover over the Lake region, temperatures will moderate rapidly in Michigan during the early part of this week. Closely following this warm wave will come generous rains changing later to sleet and finally to snow as the center passes this state and the temperatures fall. With this storm will also come severe gales and local wind storms that will leave its trail long after it passes. Following the middle part of this week the skies will clear and temperatures generally will drop to lower readings. The barometer will remain moderately high for the next few days and little or no precipitation may be expected during last days of this week and during early part of next week.

Spring Weather

The average weather conditions for the months of April, May and June will be very active in storminess, including rain, sleet, snow and high winds. For the farm country as a whole there will be some occasion for dissatisfaction and it is quite probable that Congress will take an unfavorable view towards a farmers' bill. There will be a marked retention of trade activities and in some sections this will amount to depression or disorganization. The financial circumstances will generally benefit and taxation may be reduced.

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| White Rocks & Wyandottes, Black Minorcas..... | 8.00 | 15.00 | 72.00 | 140.00 |
| White & Buff Orpingtons, Buff Wyandottes..... | 8.50 | 16.00 | 77.00 | 150.00 |
| Mixed Chicks, 100, \$12. 25% deposit books your order for future delivery. Reference: First State and Savings Bank. | 9.00 | 17.00 | 82.00 | 160.00 |

THE HOWELL HATCHERY, Dept. 58, Howell, Michigan

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FOR SALE: 320 ACRE FARM, SOUTHERN Alberta. Up-to-date in every respect. Modern buildings. Land completely fenced and all under cultivation. Fifty acres in registered Grimm Alfalfa. Full equipment, live stock and machinery. Represents \$25,000.00 invested. Can be had for \$10,000.00 cash for quick deal. Write Box 240, care of Michigan Business Farmer.

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70 ACRE FARM FOR SALE NEAR FRANK-
fort, Michigan. Good house, barn and garage; apple and cherry orchard. For terms write Robert Gray, Elberta, Michigan.

FOR SALE—MY 80 ACRE FARM. GOOD buildings, dark loam soil. Also 400 acres pasture land watered and fenced. For particulars write John Campbell, Harrisville, Michigan.

FOR SALE—IMPROVED FARMS. RANCHES. Any state. List free. L. D. Thompson & Company, 3621 S. State Street, Chicago, Illinois.

FOR SALE—120 ACRE FARM. GOOD SOIL, timber, lighting system. Will sell machinery with farm. Four miles from Richmond, Mich. Mrs. Alvah Scouten, Richmond, Michigan.

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SEED CORN AND SEED OATS. MY DRYING house is filled with Clement's Improved White Cap yellow dent, and Duncan's yellow dent seed corn. Fire dried on racks, ear tested, guaranteed germination from high yielding stock. Registered and certified Worthy Oats. Heavy yielders with a stiff straw. For prices write Paul C. Clement, Britton, Michigan.

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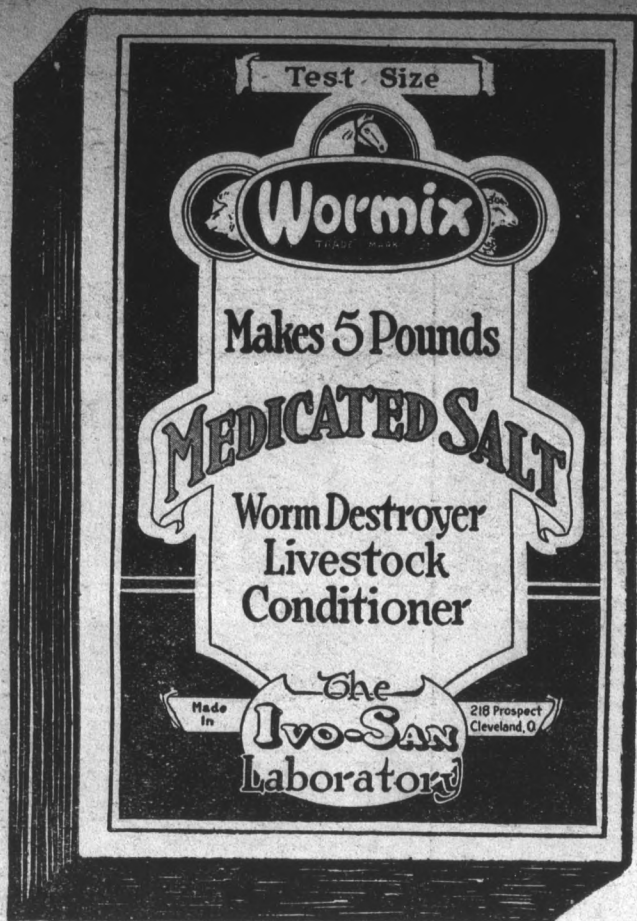
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Enclosed find 25c. for which please send postpaid by parcel post your Trial Package of WORMIX—enough to make five pounds of New Improved Medicated Salt.

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One 15-lb. Pkg. \$ 3.50 One 90-lb. Pkg. \$18.00
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I WANT you to see for yourself how you can MAKE YOUR OWN worm destroyer and conditioner—how you can make a BETTER preparation than you can buy ready-mixed, and how you can SAVE HALF the usual cost. All I am going to ask you to do is to put 25c (stamps or coin) in an envelope, fill out the coupon below—mail it to me and I will send you enough WORMIX—my new, concentrated remedy, to make 5 lbs. of the best worm destroyer, tonic and conditioner ever offered to live stock owners. This will last 10 hogs or 10 sheep, or 2 horses or cows—for 30 days so you can PROVE for yourself that WORMIX is all I say it is and that it SAVES HALF the usual cost. Only after 30 years' experience as a veterinary chemist was I able to perfect this new WORM REMEDY, and I can say to you, positively, it is the best, most effective, and successful worm destroyer, tonic and conditioner ever offered to live stock owners—

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I have compounded a great many different worm remedies—marketed millions of pounds, but never in my 30 years of laboratory work have I produced one so thoroughly effective, so economical in cost and so satisfactory as WORMIX. First, it gives prompt results. Second, it gives permanent results. Third, it saves HALF the cost of other worm remedies. You do not have to dose each animal individually. Your stock "doctor themselves".

WORMIX not only rids your stock of stomach and intestinal worms, but it KEEPS THEM FREE from these dangerous destructive parasites—it PREVENTS reinfestation, and that is the only way you can permanently rid your animals of these costly pests. Good alike for Sheep, Hogs, Horses, Cattle and Goats.

You cannot afford to let this opportunity go by to PROVE to yourself that there is a POSITIVE, sure way to conquer worms in your live stock, when all it costs is 25c. Read what those who have tried it say.

50 Years Breeder of Pure-Bred Sheep



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"I have had a lot of worm trouble and lamb losses in my 50 years of purebred sheep breeding, so when Mr. Feil wrote me about his new WORMIX I ordered some. At that time I had 300 sheep, including 120 lambs, most of them registered, and I was having lots of worm trouble. Soon there was a marked improvement. There isn't a sign of worms in the flock now. Wormix has proved the best remedy I have ever tested. I was impressed with the ease of feeding it—stock doctor themselves, and its cost is only about half that of other preparations."—H. P. Sherman, Alfred Station, N. Y.

No More Worms in His Lambs



E. W. WILCOX
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"I have had 35 years' experience with sheep and am raising purebred Shropshires. My greatest drawback has been stomach worms. I have used the usual remedies, even gasoline, nicotine and blue stone, with only temporary results. A year ago I tried WORMIX—added salt to it as directed and gave my flock free access to it. In four days worms showed in the droppings. Shortly all lambs seemed rid of the pests. I have not seen a sign of worms since. My sheep are healthy and thrifty. I consider Wormix the one best means of conquering our worst enemy. Every sheepman ought to feed it."—E. W. Wilcox, Crosby, Pa.

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One of the big advantages of WORMIX is in the fact that you do not have to starve, drench or dose each animal. You simply put it where your animals can have free access to it and they doctor themselves. This not only SAVES you a dirty, disagreeable job, but it also INSURES permanent results, because the only way you can permanently get rid of worms in live stock is by using a remedy to which they can have constant free access, and thus prevent the re-infestation which goes on daily until pastures, feed-lots, etc., are free from worm infection. Wormix PREVENTS reinfestation, without starving, dosing or drenching.

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I have made it so easy for you to find out how you can stop your losses from worms in your live stock and also how you can save about HALF the usual cost, that I don't see how any farmer can possibly fail to fill out the coupon and mail it at once. The 25c merely covers packing and postage. Send it today and you will say later it saved you a good many dollars. If you prefer to send for a full sized package, do so. Your money will be refunded if it does not prove entirely satisfactory. See prepaid prices below.

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One 90 lbs. pkg.—enough to make 600 lbs. 18.00
(Add 6c lb. more west of Rockies.)

Each 15 lbs. of Wormix makes enough to last 100 sheep, hogs or goats—or 25 horses or cattle, two months.

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