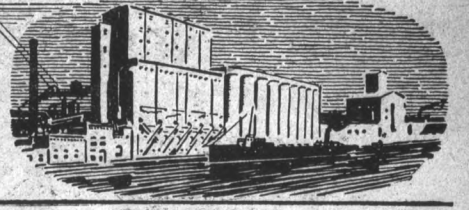


The Michigan BUSINESS FARMER



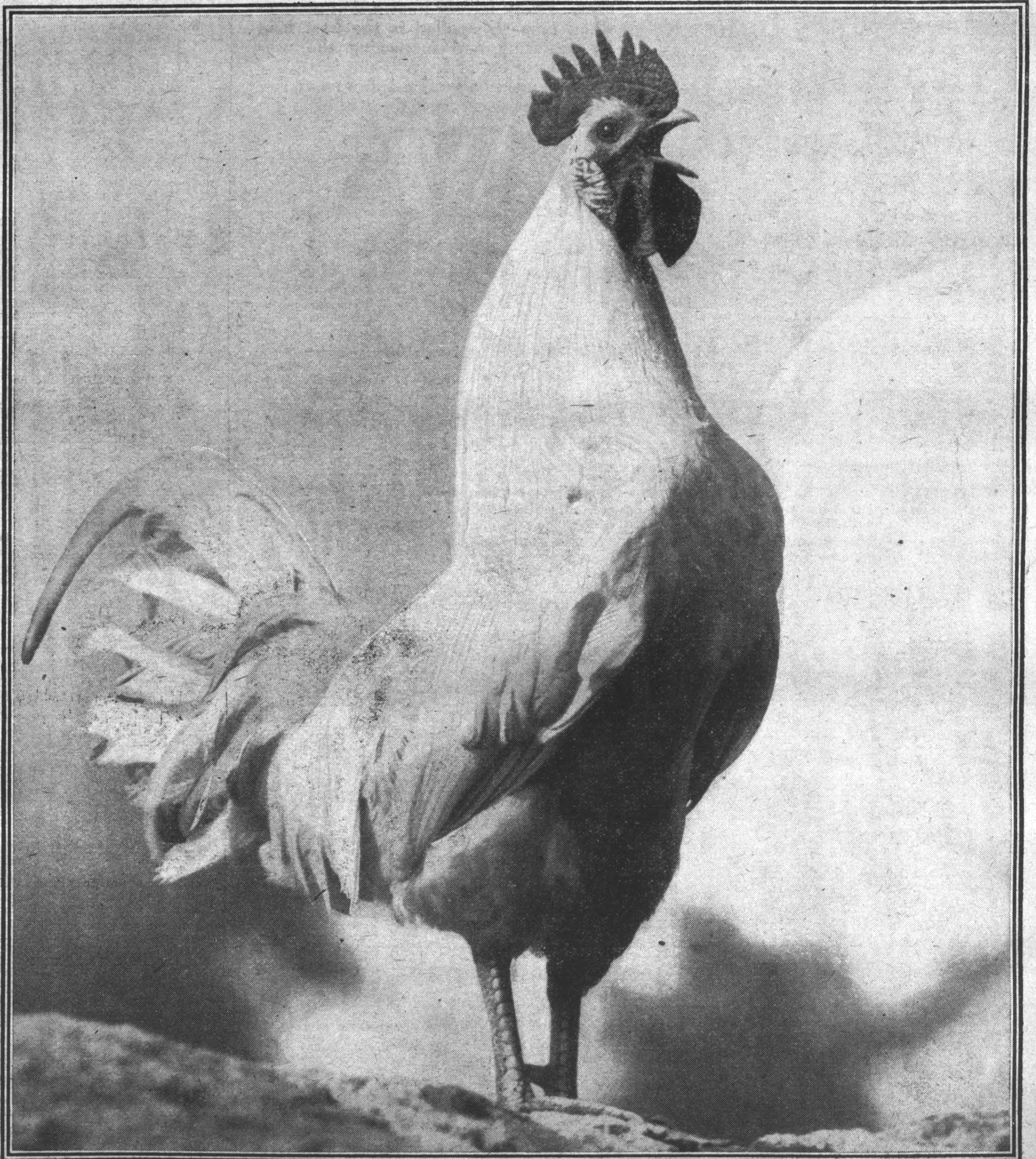
An Independent
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Edited in Michigan



VOL. XII, No. 12

SATURDAY, FEBRUARY 14, 1925

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



"COCK O' THE WALK"

Beginning in this issue: "How Bill Bucked the Tiger"—see page three



Feed the Fields

DON'T waste manure by dumping it on your fields or scattering it in large clods. Distribute it evenly over the surface of the ground in fine particles. Otherwise you will not get maximum results from this wonderful fertilizer. Every farmer knows that manure when properly applied is the best food for restoring and increasing the productivity of the soil. Why not feed your fields by using a good manure spreader? Big profits result from the use of

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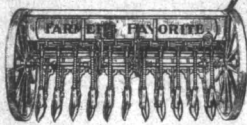
It does a perfect job of distribution. It thoroughly pulverizes the manure and spreads it as widely and evenly as laying down a carpet and can be used for top dressing so the crop will have full benefit of the fertilizer and not be injured by heavy clods.

The New Black Hawk Manure Spreader 40-A is the lightest draft, least complicated and simplest to operate of any machine of its kind. A two-horse spreader. It has a strong and positive feed; does not choke; free from cog gears; great quantity range; works equally well on hillsides and level ground; a manure spreader of Superior quality. Write for full details.

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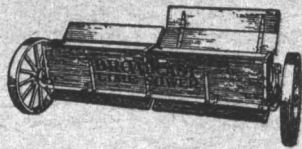
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MEETING FOR BEAN GROWERS

THE annual conference of the Michigan Bean Growers Association will be held at Saginaw on Friday, February 27th, according to Mr. A. B. Cook, president of the association. Through the courtesy of the Saginaw Board of Commerce the meeting will be held in the Auditorium of the Board of Commerce building, beginning at one o'clock. Every bean grower in Michigan is invited and urged to attend. Don't forget the date or the place, and try and be there.

NATIONAL CORN SHOW AT CHICAGO

A NATIONAL Seed Corn Show will be held in Chicago, March 2-7. Prizes totalling \$17,000 are offered by the Sears-Roebuck Agricultural Foundation, under whose direction the show is being held. A \$1000 is offered for the grand champion ear. Another \$1,000 is offered to the county farm bureau, grange, farmers' union, farmers' club, county agent, farm advisor, or county community group sending in the largest number of entries, and a total of \$15,000 more for the champion ears from each county in the country. The show will be judged by a committee of corn experts selected by the American Society of Agronomy.

Competition is open to the entire United States. Any farmer, farm woman, or farm child may enter one ear of selected seed corn. No entry fee is charged. To enter, it is only necessary to select the best ear and send it by parcel post to E. B. Heaton, Supt. National Seed Corn Show, Sears-Roebuck Agricultural Foundation, Chicago, Illinois. Entries will be received any time up to March 7th. The name, address, county and state of the person entering the ear should be plainly written on a slip of paper and tied around the ear with the writing on the outside. No ear will be awarded a prize until tested for vitality and disease resistance.

All information obtained as to seed corn conditions will be made available at the earliest possible date. This year the condition of ordinary crib selected seed corn is seriously poor. In some states only 25% of last year's corn crop is fit for seed. Every farmer is urged to submit seed corn for a test at this national exhibit the first week in March at the earliest possible date.

MUSINGS OF A PLAIN FARMER

I ROSE at dawn, and after chores had an early dinner. Grabbed the haft of the axe and sauntered forth to the woods to cut saplings.

Marveled at the scarcity of timber in this country. There being but small amount left on our farm—which makes me shiver. Old settlers tell me the fire of '81 wrought havoc among the forest. There was real suffering then. We cubs know nothing of hardships.

It would be well to reforest the land. Perhaps it would benefit my posterity. But why worry about my posterity. They won't chop wood.

I am forty-three and don't leave a very smooth stump. Chopping is a lost art.

There will be other methods of generating heat. Perhaps electricity. Well! Let it come! I can handle that with a button and two fingers. This axe requires both hands.

I am in accord with any labor saving device that happens along. Great is the invention of man. When problems arise some wizard steps out and solves them. So why worry. It was ever thus.

I'll be cussed if I chop this elm. It's the favorite haunt of the cows in the summer. Woodman, spare that tree!

There is an abundance of oxygen out here. The air is not adulterated with gasoline fumes and soot, or cigarette smoke. I can sneeze open without fear of contaminating anyone.

Guess it's getting near chore time the dog is uneasy and shadows are long. Darkness falls quickly at this time of year. I dislike roaming about the barn with hands full of baskets and forks without clear vision.

One of the most pleasing views to me in winter is a clear, red sunset. It foretells heat.—A. P. Ballard, Huron County Farmer.

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The Michigan BUSINESS FARMER

The Only Farm Magazine Owned and Edited in Michigan

Published Bi-Weekly at
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SATURDAY, FEBRUARY 14, 1925

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How Bill Bucked the Tiger

A Farmer's Experience With Slickers, Shysters, and Crooks

By WILLIAM EDWARDS

It was the telephone. Three shorts and a long.

"William, answer that, it's our ring and it might be those Lanes callin' about the hay", called out Maria, who was in the kitchen building a mince pie.

So I laid aside the morning paper and took down the receiver. It was the bank calling me.

"A note, did you say? Well, that's durned funny, Mr. Harper; I only got one out and that isn't s'posed to be paid."

Well, it ended up by me promising to go into town and see about it.

The farm was in pretty good hands with the Smith boys in charge, so I didn't have much to bother about. Maria and me was kind of taking it easy after thirty years in the game and as we had a neat little account in the bank and I had made a few investments, about all I had to bother about was the presidency of the Agricultural Society and to buy a few hogs and ship them whenever there was enough for the market. So it was easy to crank up the car and slip into Jackson City, our county seat.

Two hours spent in conference at the bank were about as enlightening as any in my career. To say I learned a lot was putting it mildly, and even the Hank Peters, the town Justice, was always sayin' you can't teach an old dog new stuff, that bank cashier taught me a lot that morning and I paid well for the lesson in the afternoon.

You see, as I said once, I had made a few investments. During the war, Maria and me talked things over when them Liberty Loan drives was on and I bought a right smart lot of bonds. They was the first I ever had and I felt good too. Being partners with old Uncle Sam appealed to me and I spent a lot of time getting the rest of the boys lined up.

Well, when the war was over and things had quieted down and Maria and me had decided to retire from active service on the farm, there wasn't much to do, so I spent a lot of time in town. One day a fellow came along in a swell car and stopped to pass the time of day with us boys at the post office. A couple of days later he came out to the farm and after askin' about things, began to tell me about a new factory that had just been completed at Speedway, Michigan. It was, he said, a product of the war. He had a book with a lot of pictures of buildings and employees and the company was making nitrates. The Great United Nitrate Co., which had been turning out the stuff that gun powder was made of, was now making fertilizers and it was a regular gold mine. This fellow, Tom Wolf, admitted to me confidentially, that he had made an even five thousand profit out of his shares the first six months of the year. He went on to tell how easy it was to get in on the deal and after mentioning to me that he knew I was a shrewd fellow, knowing good things when I saw them cause I had helped sell the boys Liberty bonds, he explained how I could get a few shares in his company. It sure was easy. All I had to do was sign a note, not payable to anyone but myself. I was to pay Wolf ten percent and the rest of the note could be paid out of the earnings of the first year's business. To prove to me what others thought of the deal he showed me a list of the stockholders and right at the top of the list was the names of several bankers I had heard about and our Congressman. Well, it ended up with me signing for ten shares. I gave a check for \$100 and signed a note payable to myself for the balance of \$900. Wolf told me that he would deposit the note in "trust" and if I wanted it anytime or felt that things wasn't going good, just to let him know and he would take care of me. Before he left I signed the note on

THIS is the first installment of the story we have been telling you about; "How Bill Bucked the Tiger". Bill Edwards, a retired farmer, who wrote this story for us, has had considerable experience with crooks and near crooks, and he tells a very interesting tale. As you read the story you will no doubt recall—maybe in your own neighborhood—incidents somewhat similar.

the back as he explained that was customary when a man made a note to himself. A few days later I received a swell certificate telling the world I was the owner of ten shares of Great United Nitrate stock.

Wolf was around for a few days after that but after that I didn't hear much of him.

Maybe you thing it wasn't a surprise to me when Jim Harper, our banker, hands out that note as I was taking off my sheepskin coat at the bank.

"How in time does that happen?" says I exploding. Wolf told me that note would never turn up; its to be paid out of the profits, something must be wrong."

"Don't know", says Harper, a man of few words but always looking out for the First State Bank. "The folks that sent that note out here for collection want their money and I can't help it but we gotta collect."

So I hiked over to Charley Stanton's office. He's our best attorney, having been a judge once. Back came Charley with me and it was some round we had that afternoon.

Charley says "Don't pay it, Bill," and Jim Harper says "Pay or I will have to advise my client to sue you."

Well, when the day was thru and I went back to the farm, I had give Charley \$50 and trouble was started. Spent most of the next two weeks fighting with the bank and when Charley Stanton had got the court to call off that note I had spent six

hundred hard earned dollars besides the one hundred I gave to Wolf.

Say, that Great United Nitrate Co., was a grand fake. That book Wolf had was about all the company had to show. The building I thought was the factory was a barb wire works in Illinois and a photographer had faked the picture and made the sign look like it was on the top of the building. Wolf was right only when he said he had made a profit on his stock. These shares cost him nothing and every time he unloaded a bundle he got the ten per cent himself. Why, those skinkers sold \$2,000,000 to fellows just like me who wouldn't take the trouble to look the matter up. It was the worst trimming I had taken since I bought a bowling alley way back in 1895.

That's a good one too, and worth telling about. You see there was a fellow came to town and set up a bowling alley in an old building down near the river. Bowling was a new game then and all the boys tried it and money came in flyin'. Well, one day just before fair time, the fellow running the alley, Walter was his name, he offered to sell out to me, asking \$500. Of course that was too much for me but I said I would think it over. The couple of days before the fair we had a hard rain and the river come up and water ran into the bowling hall and wet things up bad. But Walter cleaned things up good; that afternoon the folks was bowling away.

I happens in looking after the damage from the rain, but things was cleaned up and to all appearances nothing was wrong. So I asks Walter how much he will take for the place. Casual like he

says, "Well, Bill, I was holding out for \$500 but I just got word that my wife is in the hospital in St. Joe and if you will give me \$400 cash the place is yours." Fair was only two days away and I saw my chance to make all my money back that week so right quick I says, "Walter, first thing in the morning meet me at the bank. Here's \$10 to bind the deal."

He met me all right and soon had his money. He left on the noon train for St. Joe, too. That afternoon things started to dry out the bowling alley flooring started to warp and by night the place was a wreck. I never did run that place and from then on I thought I was too smart to be caught. But you see them bonds made me think I was a wise one and I didn't find out until it was too late that stocks is different from bonds. Charley Stanton taught me a lot about 'em and so I decided to give the boys at the Agricultural Society the benefit of my learning. I wrote a paper on the subject, with Charley's help of course, cause Maria says, "William, you want to give an intelligent talk and you know you can't talk that way unless some one helps you."

The meeting was held all right and I gave the paper and received a lot of favorable comment. Jim Harper afterwards told my folks it was the best thing they had heard since Bryan talked on Free Silver in '96.

The upshot of it was that I soon became the person folks came to inquire about stuff they was going to buy and because I had learned so much along that line. That's the reason why I wrote this article.

Even Maria has taken a little faith in my investigations. You see last winter she got a notion that her face was wrinkling too fast and so after reading all the ads on the subject she sends \$5 to New York for some Beauty Cream. In due time she got it all right and the swellest bunch of literature and directions all signed by a French woman whose name you couldn't read. Maria spent more time each night fixing up her face with that preparation than it took me to do the chores, and as far as I could see she wasn't getting rid of the freckles or wrinkles. But she was persistent and used all of the first batch and ordered a second.

The same day I was sending out that money order we had an argument as usual at the post office. Hank Peters was telling how he had been reading about the value of a peculiar kind of white clay that we used to make casts out of. He told all the funny things that had been claimed for it and how one company had made a lot of money selling it to make folks beautiful, at a big price per can.

"Where did you read that, Hank?" asks I rather unconcerned. He told me and says he would loan me the paper.

Well, you ought to have been at our house that night. Maria was busy getting out the stuff to make her beautiful and telling me to see that the draft on the stove was closed. I figures its a good time to read to her, so I says, "Here's a good one, Maria, listen."

I read about the clay and then asks, "Who makes that stuff?"

"Well", says I, "its kinda dim, maybe you can read the print."

So over she comes, me chuckling to myself. She reads along and when she hit the name of the firm that was being exposed in the paper, there was the name of her French beauty expert! Was she mad? Say, she made me sit down and write a letter telling the French woman that if we don't get the \$10 back right

(Continued on Page 26)



A couple of days later he came out to the farm and after askin' about things, began to tell me about a new factory that had just been completed at Speedway, Michigan.

Going to Try Some New Seed Oats This Spring?

Tests Prove Wolverine and Worthy Varieties Best Yields for Michigan

By D. F. RAINEY

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

If you are thinking of trying some new seed oats this spring, consider the Wolverine or Worthy of college fame.

Last summer there was an article in this paper by the late Professor Spragg. In his article Professor Spragg told how the oats originated and were continually being tested. It is the aim of the Farm Crops Department, M. A. C., to find the highest yielding varieties from whatever source they may come.

Of those oats distributed from college, the Wolverine and Wolverine are by far the most generally grown. They were released in 1911 and 1917 respectively. As new men tried them out and found how well they yielded they told their neighbors who in turn decided to give them a trial.

Yet, you will find Danish, Big Four, and others being grown too. The Farm Crops Department is recommending the Wolverine and Worthy. And the reason is that when all are put in trials, both at East Lansing and out in the state, it is found that the Wolverine and Worthy can be depended upon to return the most oats at harvest time.

There are those farmers who feel that the results would be different, that the Wolverine and Worthy would not do as well in their own county. The Farm Crops Department usually has two or three oat variety tests conducted in cooperation with some farmers in different parts of Michigan. Last year Mr. Kidman, County Agent in St. Clair County arranged with a couple of his farmers to each conduct an oat variety test. No such experiments had ever been tried out here before.

In planting one of these tests, there is planted a drill-width of each variety, all in the same field, of course, and side by side. They are

RESULTS OF OAT VARIETY TEST IN ST. CLAIR COUNTY			
	Ralph Babcock	North Westbrook	Average
Wolverine, U. P.	75.72 bu.	74.31 bu.	75.01 bu.
Wolverine	73.38 bu.	73.03 bu.	73.20 bu.
Worthy	65.47 bu.	67.73 bu.	71.10 bu.
Big Four	73.00 bu.	67.25 bu.	70.12 bu.
Danish	57.82 bu.	71.50 bu.	64.66 bu.
Mammoth Cluster	64.08 bu.	56.11 bu.	60.09 bu.

all planted the same day and under the same conditions in so far as it is possible. Then when ripe, an equal area is harvested from each variety. These are threshed separately and the yields obtained for each variety.

The two farmers cooperating were Mr. Westbrook of Marine City and Mr. Babcock near Jeddo. The re-

sults of these two tests are given in the accompanying table.

The variety listed Wolverine U. P. are oats secured from the Upper Peninsula to be tried out to see if northern grown seed oats would give an increased yield like the potatoes do. Their performance was not unusual this year, in fact, this seems to be quite the usual thing to expect, judg-



A FINE STAND OF RED ROCK WHEAT.

This is a picture of a field of Red Rock Wheat on Greenwood Farm, Clinton, in Washtenaw county. The county agricultural agent and C. D. Finkbeiner, owner, are in the field, and both are nearly six feet in height.

An American Farm Boy in the Land of the Flying Dutchmen

By FRANCIS A. FLOOD

This is the ninth article of the series on travels in Europe written by Mr. Flood. You will get many a smile out of his story of a day in Amsterdam, Holland.

WE had landed in Flushing, Holland, on a sunny Sunday afternoon and after triumphing in one of the supreme achievements of my life, which was crossing the English Channel and navigating the North Sea without getting a bit seasick, I didn't care if I was a "foreigner" who was unable to speak the language of the land, and was being stared at and even laughed at by the native sons.

Amsterdam was the day's destination according to our tickets and our plans, and we undertook to find the railroad that would take us there. I attempted to inquire, but no one knew what I was talking about. I trotted up to Doctor Bereman and put my hand in his. Surely he could find his way; he must understand.

"Can you understand any of this, Doctor?" I asked him.

A Two-Faced Clock

"The only sound I've been able to understand out of all this mess was 'three,'" he replied.

A well-dressed bystander noticing us clawing at our railroad tickets guessed our dilemma and offered to help us locate our train.

"Your train goes in twenty minutes," he told us, "at 25 minutes after fifteen o'clock."

Stables of Nightmares! Had our only understandable friend, the clock gone back on our language too? Fifteen o'clock?

Question marks were fairly oozing out of my mouth and eyes, and in an emergency of that kind the desire for information demands sudden expression. There is only one word that will do in such a case—and it is two words: "How Come?"

As our friend explained to us, afternoon railroad time in many European countries is counted from 13 to 24 o'clock instead of from 1 to 12 P. M. as it is here. If the timecard says that your train leaves at 23 minutes after 21, you don't have to worry about light and black print, or A. M. and P. M. As the metric system of weights and measures, this is

one improvement our own great country could well adopt. What a fine bit of sarcasm a Dutchman writing up his travels through America could develop on our A. M. and P. M., our eastern and central time, and our daylight saving time!

There seemed to be a number of cars in a number of trains labeled with the word "Amsterdam", the one word we could read, the one straw we could clutch, and there seemed to be an equal number of volunteer informants who would dash up to us and deliver a speech in Dutch profusely punctuated by earnest pointings at various cars; and from the pointings alone, since the speeches meant nothing to us, it seemed that there were an equal number of conflicting opinions.

I only mention these things so that a reader who has never found himself in the hopeless midst of a strange language when he cannot even object to the weather or the administration and be sympathized with, will appreciate in a small measure the difficulties in making one's way about in non-English speaking countries.

We finally took our chances on one car and appropriated a complete compartment for our own party. A few minutes after we had clattered

out of town an earnest young man came down the passageway and shouted something two or three times. Of course, we had no idea on what page his words would be found in a dictionary, but there must have been something in the expression of his face that reminded us of the dining car missionaries back in America. Anyway, we decided he was announcing dinner and so four of us walked down the train looking for a diner. The strange part of it was that we found it and sat down at a table. This much was like it was at home.

The menu was a complete mystery both as to the food served and the price. We each had a collection of Dutch coins but did not even know their first names and knew nothing of their financial standing. The waiter approached and we asked if he could speak English. He could not. I asked him if he could speak French. He could. He started in like the opening strains of "The Marseillaise", but as we sat immovable and silent he warmed up to his theme as a violin soloist does when the conductor has piped the rest of the orchestra down for the soloist to do his stuff. We were transfixed, and he developed into an eight tube orchestra in his speech—whatever it was about.



Left: A Holland milkman. Notice the dog hitched beneath the cart. Right: Mr. Flood buys an apple of the vegetable peddler.



ing from past results. Presumably new seed would have to be secured each year in order to secure this increased yield.

The results of these two tests show that it would be a profitable investment to seed some good Wolverine or Worthy Oats. A few extra bushel of oats, while not so very valuable any one year, would be a considerable amount over a period of ten years. If care is taken when threshing to thresh several bushels first and then save your seed, the oats could be kept quite free from mixture. Then by treating with formaldehyde for smut and screening the oats, it should not be necessary to change your seed for several years until some new variety is found or developed which will be more desirable.

Sometimes the tests do not show so conclusively the superiority of the Wolverine oats, but the trials from year to year leave no doubt as to their desirability.

There are a lot of oats in Michigan grown under the name of Wolverine (the same thing is true of Worthy) some of which have perhaps no more than one half genuine Wolverine seed. The rest is a mixture of varieties, the result of not being careful to clean the threshing machine. A lot of oats from the last job get mixed in. Of course there are others having seed with a high per cent of purity.

The best way to insure a pure variety, free from weeds and of high germination, is to purchase them of some farmer who has his crop inspected by the Michigan Crop Improvement Association. Your County Agent can furnish you with a list of such farmers, or you may write the Secretary of the Association at East Lansing.

I didn't speak French, especially such high-powered French as that, but I hated to break the news to the waiter. The doctor knew my limitations and interrupted him to ask if he spoke German. The waiter, wounded I'm afraid, looked cross-eyed at me and suspiciously at the doctor and finally asked him in very careful German what we wanted to eat. Of course, I might have known it—that's what he was telling me all the time. But the doctor's limited German vocabulary did not include the names of the Holland dishes the waiter had to offer and finally we did what we should have done in the first place, rub our shirt front tenderly, lick our chops, tuck our napkin in our collar, fold our hands and smile hungrily upon the waiter. He got the idea admirably and in a few minutes served us nobly. We had re-learned the old lesson that less talk and more action is always desirable.

And now to pay for the meal! We hesitated to offer him samples of our Dutch money for in our ignorance of its value, we would probably give him a piece that would either be so small it would insult him or so large it would tempt him. We talked it over and then each man gave me a one dollar bill and I offered the four of them to the waiter. Whatever change we got back would be all right. He gave me two of the dollar bills and a handful of Dutch money besides!

Holland is really the land of the Flying Dutchmen. When our train reached Amsterdam we were unloaded into the midst of the most animated and lively scene we had struck since we left New York. Porters and newsboys, passengers and townspeople were dashing about in much the same fevered hurry that is so popular and restful in this country.

Our information was that as soon as we should arrive in Amsterdam we were to be in the custody of a representative of the Holland Department of Agriculture. He was to meet our train and conduct us to a hotel where reservations had already been made for us.

(Continued on Page 23)

THRU OUR HOME FOLKS' KODAKS



MOTHER'S LITTLE HELPER.—Bernard Bennett, of Rockford, has been gathering the eggs for mother. A. C. Bennett is his father.



IN THE WAKE OF THE STORM.—This is a view of the damage done by the ice storm back in 1922 near Necedah, Wisconsin. This picture was sent to us by C. W. Loescher, of Cedar Springs, Mich., who lived in Wisconsin at the time the big ice storm swept Michigan and surrounding states.



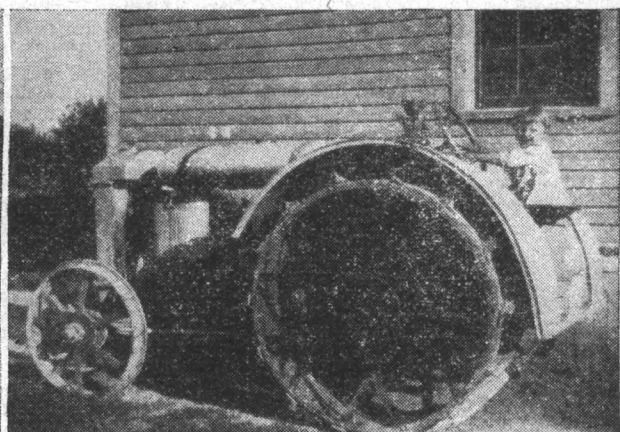
HARVESTING CORN CROP.—It is corn cutting time on the Hopkins farm, at Coleman, and Luther Hopkins swings a wicked knife.



A MICHIGAN NIAGARA.—"Here is a four-county drain in Midland county that was only about 2 feet deep when dug a few years ago," writes Miss Mary Frick, of Coleman, "but it has washed out until it is now 40 feet wide and 30 feet deep."



SAMPLING HIS WARES.—The young son of Harry Sieplinga, of Newaygo, seems to believe that plenty of wholesome milk is good for a growing boy.



A YOUNG FARMERETTE.—Dorothy, age three, daughter of Mr. and Mrs. Fred Lange, of Sebawaing, is ready to operate her father's tractor. She is taking her Teddy along for the ride and he is to help her do the work good.



"SOLVING THE FUEL PROBLEM IN NORTHERN MICHIGAN."—Mrs. A. J. Breniser, of Onaway, gives this as the title to the above picture. A team of oxen is a rare sight in Michigan nowadays.



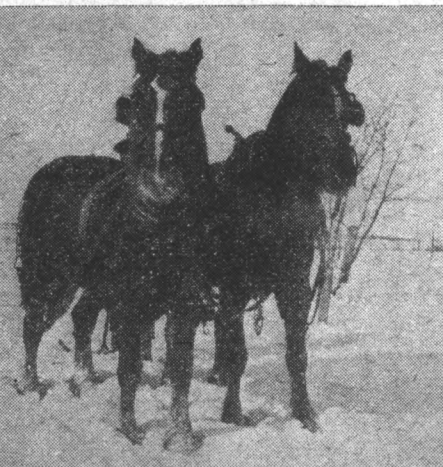
CAUGHT UNAWARES.—She says "You can't come into the house with those boots on." R. Glinke, Breckenridge sent photo.



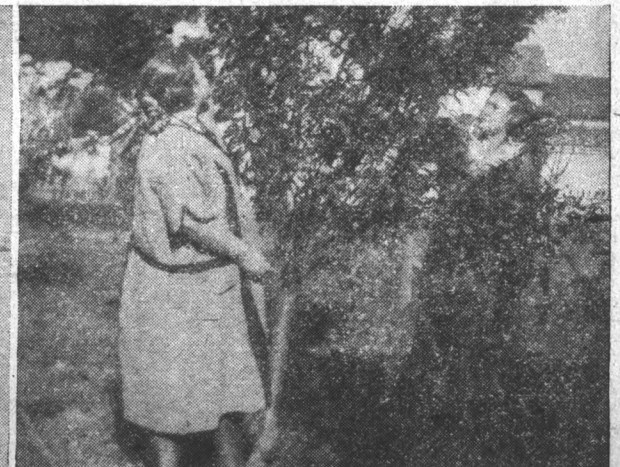
RAISING PIGS ON A BOTTLE.—This is a picture of Mrs. Bert Kamper, of Rudyard, and two nieces feeding some little pigs. "The mother pig was sick so we put them on the bottle", she writes.



"WON'T YOU JOIN US?"—How would you like to take tea with Esther Shunk, of St. Louis, and her friend, Mildred Ruehle? I am sure they would make you welcome. Esther is the daughter of Mr. and Mrs. Alva Shunk.



A FINE TEAM.—This well matched pair belong to C. A. Moore, of Millersburg. They are full sisters and were raised near Flint. They are bright chestnut color. Mr. Moore must be proud of his team.



GETTING A FEW PLUMS TO EAT.—These girls are not "cherry birds", they are "plum birds" picking plums at the farm of F. Burdorf, of Litchfield. We are indebted to Miss Esther E. Kropschot (one of the birds) of Litchfield for the picture.

Spirit of Optimism Rules During Farmers' Week

Speakers of National Reputation Address Farmers Gathered At M. A. C.

By CARL H. KNOFF

FAVORED by almost ideal weather the Farmers' Week, held at the Michigan Agricultural College, February 2 to 6, was a splendid success. It was estimated that more than five thousand visitors were in attendance which sets a new record for this big event of the winter.

Farmers' Week is more than a mere collection of meetings. It is a great organized movement through which the farmer gets new ideas and ideals of his work. Probably no other gathering in Michigan brings together so many farmers, and members of their families and certainly none other gives such a combination of information, inspiration, and recreation.

During recent years the Farmers' Week programs have undergone a marked change. Where formerly they placed the emphasis on production and marketing they are now concerned with better living and a more satisfying rural life. Dr. Kenyon L. Butterfield, President of the M. A. C., in speaking before the group meeting called to organize a Michigan Country Life Ass'n., defined country life as follows: "What we are now calling the field of country life," he said, "consists of such matters as education, health, recreation, morals, religion, country planning, and rural government. In the long run they are the real questions in agriculture because they have to do primarily with the human problems, with human values, with personal character building, and with farmers living together in the best ways in the local community, with the upbuilding of community institutions like the school, the church, the grange, and the library."

And so, while the technical and economical sides of agriculture were in no way neglected, the 1925 Farmers' Week gave proper recognition to those things which make for better homes, better living, and more useful lives in the country.

Pres. Butterfield was one of the busiest men on the college campus during Farmers' Week. He spoke before dozens of groups and meetings

for the purpose of getting the plans and policies of M. A. C., before the people of Michigan. It is no exaggeration to say that everyone who heard President Butterfield is convinced that a great agricultural leader has come to Michigan. His plans and ideals are clearly outlined and his reasoning goes directly to the root of the problems facing agriculture. He has captured the hearts of the people and they have confidence that, under his direction, agriculture will make real progress in Michigan.

Speaking at the Tuesday evening session, Pres. Butterfield dwelt on the changes which have taken place in Michigan during the twenty-five years that he was a resident in other states. Changes in buildings and faculty have almost completely changed the agricultural college itself. Fully as great a change has taken place in the industry of the state. Although in 1900 agriculture was the leading industry of Michigan, manufacturing has now taken the lead. No less startling has been the shift in population during the last thirty-five years. In 1880 there were nearly twice as many people on the farms as dwelt in the cities. Now the situation is reversed and the city population outnumbers the rural population by nearly two to one.

Despite all this change Dr. Butterfield states that there has been no change in the fundamental rural problem.

Shall the Farmer Advertise?

"Selling The Public" was the title of a red hot talk on advertising given by John M. Kelly, advertising expert.

"The greatest stumbling block in the pathway of agricultural prosperity is the farmer himself," asserted Mr. Kelly. "The farmer is the cross-word puzzle of business today. He will do almost anything else rather than organize and learn to sell after the modern methods. No other business could be kept from organizing. In fact men in other lines of business cannot conceive of

doing business without organization."

The Outlook for Democracy

Farmers' Week visitors were especially fortunate in being able to hear the Rev. S. Parkes Cadman of Central Church, Brooklyn. Dr. Cadman is president of the Federated Churches of America and is one of the most noted speakers of the present time, his services being in great demand, in both America and Europe.

Speaking on the subject, "The Outlook for Democracy", Dr. Cadman gave a searching inquiry into the value of our present form of government. He pointed out the position of leadership which the United States has at the present time and showed the duties and responsibilities which accompany such leadership.

For "Controlled Production"

Always popular with Farmers' Week audiences, Hon. J. C. Ketcham, formerly master of the Michigan State Grange, gave one of his characteristic forceful talks on "Stabilizing Agriculture". He stated that for many years he had doubted the wisdom of attempting to regulate agricultural production but that he was finally forced to believe that something must be done to control production. In support of his position he quoted from statements made by Pres. Coolidge, showing that such is the belief of our chief executive also.

While warning that everything cannot be accomplished through legislation he promised that all possible aid would be given from that source. He argued that the stabilizing of agriculture can be hastened through stabilizing legislation.

Declaring that the signs throughout the whole country are more favorable, Mr. Ketcham believes that agriculture has reached the bottom of depression and that, from now on, there will be a steady improvement.

One of the most interesting speakers on the Farmers' Week program

was Bishop Francis J. McConnell who discussed, "The Human Values of Country Life". He insisted that each industry is tested by its output of spiritual things fully as much as by the material things it produces. Agriculture, therefore, must be judged by the kind of life and the type of people it produces, in other words, by its human output.

In New York State

H. E. Babcock, General Manager for the G. L. F. Exchange of New York, gave an interesting description of the farmers' cooperative activities in that state. He explained that "G. L. F." stands for Grange, League, and Federation, respectively, and that the Exchange is a cooperative institution supported through the united effort of the New York Grange, the Dairyman's League, and the New York Farm Bureau Federation. This very effective cooperation of farmers' organizations practicing co-operation as they preach it is a real example to the farmers of Michigan.

"Debate" On Child Labor

One of the most interesting features of the Farmers' Week program was the presentation of arguments for, and against, the Child Labor Amendment. This was not carried on as a formal debate but it served to bring out clearly the points on both sides of the question.

"The Purpose of the Child Labor Law Amendment" was discussed by Owen R. Lovejoy of New York.

Reasons for opposing the proposed Child Labor Amendment were given by Mrs. Dora Stockman, Lecturer of the Michigan State Grange. Mrs. Stockman explained that she was presenting the other side of the case because she had been so requested and also because the Grange had taken a stand against the proposed legislation. Acting as the representative of the Grange she felt it her duty to explain the stand taken by the organization.

A very interesting Farmers' Week number was the talk on "Lessons from the American Farmer from European (Continued on Page 19)

State Farm Bureau At Annual Meet Opposes Change in Name of M. A. C.

By STANLEY M. POWELL

(Lansing Correspondent of The Business Farmer.)

EVIDENCING matured stability and a marked spirit of enthusiasm and harmonious loyalty, the Seventh annual meeting of the Michigan State Farm Bureau held at M. A. C., February 5-6, will go down in history as the strongest and best annual meeting of this farmers' organization which has thus far been held.

The big program of reports, addresses, business, elections and consideration of by-laws and resolutions which was crowded into the two day session was only made possible by the businesslike attitude of the delegates and by their close application to the problems coming up at each session.

A year of conservative and yet substantial and satisfactory progress was revealed in the general report submitted by Secretary Manager C. L. Brody. In a masterly way Mr. Brody dealt with the problems of the Farm Bureau past, present and future, outlined the lessons learned in the school of experience and showed why the Farm Bureau today was established on a sound basis with encouraging prospects for the future.

Following Mr. Brody's report, reports of the treasurer and of the heads of the various Farm Bureau business and service departments were given. Complete frankness characterized the discussion of all of these affairs and it was evident that the Farm Bureau is an organization which is truly of the farmers, by the farmers and for the farmers.

While the Farm Bureau meeting was remarkably free from formal speeches, the one address of the session delivered by Kenyon L. Butterfield, President of M. A. C., made up in its quality and breadth a vision of any evident omission along this line. Dr. Butterfield took as his topic "The College Side of Business Co-operation in Agriculture." He showed why the College had been apparently slow in promoting co-oper-

ative business enterprises, what the College could not do and what it could legitimately do. Dr. Butterfield declared that successful co-operative enterprises depend about 85% on management and while the College cannot manage the co-ops directly it can and must train managers and teach its students the sound principles of co-operative marketing.

Discuss Control and Fees

Of outstanding importance among the matters coming before the Farm Bureau delegates at their session was the new set of By-Laws submitted for their consideration. Chief interest centered in the provisions for representation in future State Farm Bureau meetings and in the amount of the membership dues. After full discussion it was finally decided that in the future, representation should come from local units rather than merely from the County Farm Bureaus. These local units would first have to be approved by the County and State Farm Bureaus before they could send delegates to the State meeting.

One of the most perplexing problems coming before the delegates was to determine the amount of the Farm Bureau membership dues for the future. Everyone seemed desirous of finding out just what fee should be adopted to secure the strongest and most influential organization. Some thought the fee should be lowered, but the majority finally decided to continue the \$10 rate with half going to the state and national Bureaus and the remainder remaining in the counties for local work. One delegate seemed to hit the key-note of what was in the minds of the majority when he said, "We don't want to put the Farm Bureau on the bargain counter". Delegates appeared op-

timistic that another successful membership campaign could be staged at the \$10 rate.

Of course one of the most important developments of the meeting was the adoption of the resolutions which determine the stand of the Farm Bureau on general and legislative matters for the coming year. Planks referring to state legislation were adopted as follows: commending the legislature and the governor for enacting the gas tax, endorsing the use of convict labor for highway construction work, urging the repeal of the Covert Act, favoring liberal appropriations for M. A. C., and opposing any changes in the name of the institution, demanding a pay-as-you-go policy, favoring a personal state income tax, stressing the necessity of an adequate reforestation and conservation program, opposing the ratifying of the so-called child labor amendment to the federal constitution, endorsing Senator Leland's bill to make the United States potato grades compulsory in Michigan, favoring the bill to provide \$500,000 for each of the next two years to pay indemnities on condemned and slaughtered tubercular cattle and urging that the time for paying taxes without the added 3% penalty be extended from January 9 to February 15 each year.

Equality of Agriculture

Resolutions of a more general nature stressed the need of organized agriculture, urged fairer laws to give economic equality for agriculture, expressed good will toward all other farm organizations and agencies, especially mentioning county agents and boys' and girls' clubs, and rejoiced in the out-lawing of "Pittsburg Plus."

Resolutions for the attention of congress laid down the policy of the

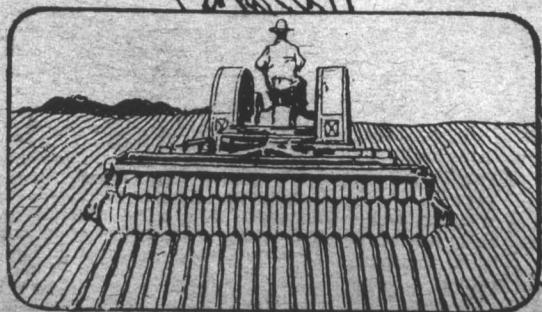
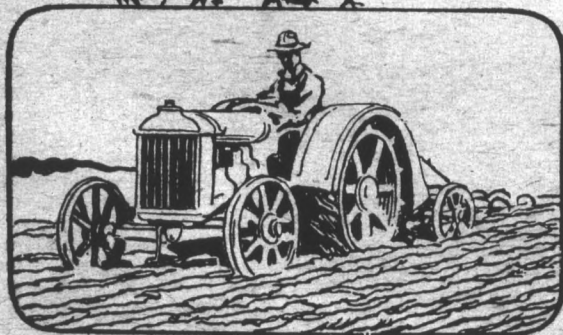
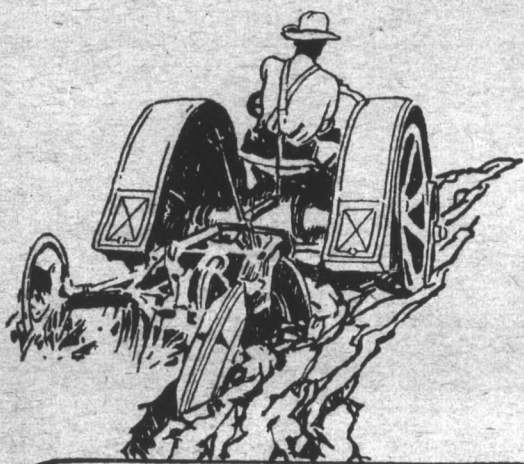
Bureau regarding taxation, transportation and Muscle Shoals, endorsed the 18th amendment and the Volstead Act, truth-in-fabrics, truth-in-fruit-juice and standard container bills, present immigration laws, area plan of bovine tuberculosis eradication, and opposed increases in parcel post rates and transferring any of the functions of the United States Department of Agriculture to any other branch of the government, urging licensing of commission men dealing in unmanufactured food products in carload lots and demanded opportunity for unhampered development of co-ops. The resolution on the last subject was as follows: "Resolved that we are opposed to any measure which will create a duplication of machinery for aid in marketing farm products or which will tend toward a paternalistic control of farmers' organizations, and we demand the right for a free, unhampered development of co-operative marketing."

The delegates elected the following Board of Directors: Directors at Large—M. B. McPherson, Lowell; Mrs. Edith M. Wagar, Carleton; W. W. Billings, Davison; E. C. McCarty, Bad Axe; Verold F. Gormely, Newberry; and J. G. Boyle, Buchanan. Directors representing affiliated commodity exchanges—Fred Smith, Elk Rapids, Michigan Potato Growers Exchange; M. L. Noon, Jackson, Michigan Milk Producers' Ass'n; J. H. O'Mealey, Hudson, Michigan Live Stock Exchange; George McCalla, Ypsilanti, Michigan Elevator Exchange; and M. D. Buskirk, Paw Paw, Michigan Fruit Growers, Inc.

The newly elected Board of Directors met and organized by re-electing M. L. Noon, president; M. B. McPherson, vice-president; C. L. Brody, secretary-treasurer-manager; and an Executive Committee to be composed of Messrs. Noon, McPherson, and W. W. Billings.



Time Is Stuff of Which Crops Are Made



With the Fordson, you farm for prosperity, because your acreage is broken in less time; because your furrows are the proper depth, and because your seed beds are thoroughly well made.

The Fordson saves feeding time, watering time, grooming time and hitch-up time. It needs no "favoring" or breathing spells. It will work twenty-four hours a day.

Fordson farmers finish their Spring work—plowing, harrowing, discing and seeding—at the right time, because of their ability to do more and better work when weather and soil conditions are favorable.

Better crops and bigger bank balances follow the use of the Fordson—it is a logical and time-proven investment.

See the Nearest Authorized Ford Dealer

Ford Motor Company
Detroit, Michigan

Fordson

CLOVER
Purity 99%
Germination 91%
Weed Seeds

Al bought this

CLOVER
PURITY 99%
GERMINATION 91%
WEED SEEDS 1%

George bought this

What the Hunt Boys Learned about Clover



AFTER the Hunt boys bought their Clover seed last spring, they compared labels. George found that Al had bought from another dealer, seed which was labeled the same percent purity and germination as his.

Growing conditions during the season were not favorable. Al's Clover didn't do well, while George's came along in fine shape. Al figured he got only 1 1/2 tons to the acre, as against George's 3 1/2 tons.

They couldn't explain it. They agreed the soil, cultivation and all other conditions had been as nearly alike as they could be. But Al began to study up on seeds, seed laws, seed testing, etc. He concluded his seed had been lacking in vitality, even though the tag didn't reveal this fact.

Al learned a lot of things about seeds and testing that will be worth dollars and cents to him in the future. You can read what Al learned in a little book prepared by the Albert Dickinson Company, entitled "7 Lessons in Judging Seed." It is sent free on request. Write for it.

The Albert Dickinson Co.
Chicago, Ill. Minneapolis, Minn.
BUFFALO NEW YORK BOSTON
PITTSBURGH BINGHAMTON

7 Lessons in Judging Seed

"PINE TREE"
FARM SEEDS

Sold By Good Dealers Everywhere

10 Cents

worth of ordinary fuel will keep this Sunray lamp or lantern in operation for 30 hours. Produces 300 candle power of the purest, whitest and best light known to science. Nothing to wear; simple; safe; 10 days' trial.



FREE Lantern

As a special introductory offer, we will give you a 300 Candle Power Sunray Lantern FREE with the first purchase of a Sunray Lamp.

Lights up the yard or barn like a search light. Write today for full information and agency proposition.

KNIGHT LIGHT CO., Dept. 3292 Chicago, Ill.

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This is a forecast of Detroit's growth, based by its public utilities upon past records.

Such progress assures Detroit real estate values.

Carefully selected and appraised Detroit apartment and office buildings are the security back of United First Mortgage Bonds.

Our literature describes many offerings. Send today. You can find here the kind of an investment you wish to make.

UNITED STATES MORTGAGE BOND CO. LIMITED
Howard C. Wade, President
332 Majestic Building DETROIT, MICH.

Capital \$1,000,000
7% UNITED FIRST MORTGAGE BONDS
Resources more than \$10,000,000

U. S. — RECORD — \$2,059.20

Average \$1,000 every year 1 Acre Champion Everbearing Strawberries. Trial 250 Plants \$3.00; 500-\$5.00. Direct from originator. Trees, Shrubs and Giant Melon seed. Catalog Free.
EDW. L. LUBKE, R9, New Buffalo, Michigan.

Broadscope Farm News and Views

Edited by L. W. Meeks, Hillsdale County

An Alfalfa Experiment

MENTION was made in a former article of a friend who last year sowed alfalfa in three different ways, to test which was most successful. Lack of space in that issue and the one following has prevented me from writing more of his experiments until now.



L. W. MEEKS

This man has never used lime as his farm does not seem to need it. He uses no commercial fertilizer, but considerable barnyard manure. Some years ago he gave up common alfalfa, as it was more or less liable to heave and winterkill, the first winter; so all his seeding last year was of the Grimm variety.

The seed was the same in all three plots, and was certified. The field was potato ground and was not plowed. Plot number one he fitted early and sowed one bushel of barley to the acre. The alfalfa seed was inoculated with culture he secured from the M. A. C. He sowed the alfalfa immediately after sowing the barley, being careful not to get it too deep. On this plot he has some alfalfa, but it is quite scattering and small.

Plot number two was fitted by weekly harrowings, about two inches deep, from early spring until about June 20th. The same amount of alfalfa was sown as in plot one, only the seed on this plot was not inoculated, and was sown alone. This plot shows a very poor stand, and the alfalfa is not of good color.

The third plot was fitted and sown the same as number two, but this seed was inoculated the same as in plot one. This last plot is as nearly perfect as one can get. It is thick, tall, of good color, and what roots! He has proven that alfalfa does not desire companionship with a so-called nurse crop, but does enjoy the company of myriads of nitrogen forming bacteria which the culture inoculation provides.

This friend says, "If you pay around thirty dollars a bushel for alfalfa seed, you cannot afford to give chance." However he admits it is not impossible to once in a while get a good stand of alfalfa when sown with oats, barley, or even wheat, but he believes it is a misfortune when a good stand is secured by such methods, because for one successful seeding obtained thereby, there are several failures; and, if by chance a good stand is secured by such practice, one will naturally try it again and again and may have to try it several times before a successful seeding is again obtained. "If you've got to have a barley crop, sow barley, and if you really want a field of alfalfa, sow alfalfa, and sow it 'without a nurse crop to rob it.'" I believe this man is saying something when he talks like that. What do you think?

* * *

Another Culture Test

The successful use of nitrogen culture mentioned above reminds me of what a field man of the Natural Research Bureau told me two years ago. He visited Broadscope Farm numerous times during the summer, while conducting a sulphur test on some of our soils to determine its effect on potatoes, etc.

On one of his visits here, we were talking about culture, and he said that while on a motor trip in Central Michigan a little while before, he noticed a most wonderful field of alfalfa on the north side of the road, while directly opposite was a field of very poor alfalfa. Being at once interested in these fields, he stopped at the first house on the south side of the road, to inquire about them. An elderly man made his appearance and said that he owned the poor field,

and a young man across the way owned the good field. He said both fields were equal in fertility, had been plowed the same time, seeded the same, and to the same kind of seed, "but", he hesitated, "that young fellow inoculated his seed with some culture he got of the M. A. C. I didn't use any on my seed because I thought it was pretty near nonsense, but, mister, I've changed my mind. Fifty cents worth of culture made him a wonderful crop, and for fifty cents I lost mine. Next year believe me, I'll try his way."

Alfalfa and Orchard Grass

Several years ago we seeded a piece of alfalfa and sowed about eight quarts of orchard grass to the acre with it. This proved to be the finest hay we ever had. Orchard grass is like timothy in as much as it grows only from seed and does not run and become matted like June grass, blue grass, quack grass, etc. It grows only in stools, and if not pastured or cut too closely will live for years. It withstands June grass, and is not easily crowded out by it. However it is quickly killed by plowing. It will grow most anywhere and shade does not seem to be objectionable to it. Maybe that is why it is called orchard grass. It makes large crops, and dry weather is no great barrier to its growth, although it is a shallow rooted plant. It makes very good pasture, but is not considered of much value as a hay crop—growing too quickly in the spring and becoming too rank and fibrous if not cut very early. These objectionable qualities are the very ones which make it valuable in an alfalfa field. Growing in alfalfa it has a partner much to its liking. The alfalfa is just as quick to start in the spring, and must be cut very early.

At this time the orchard grass will have slender leaves standing erect, and nearly as high as the alfalfa. These fine leaves are a great help in curing alfalfa, as they dry quickly, and will not shatter when dry, thus helping to absorb the moisture from the alfalfa. The alfalfa and orchard grass hay is superior to plain alfalfa hay for most stock feeding. Orchard grass will not run out alfalfa, and will keep June grass from crowding in. Cut early when alfalfa is, it will start at once and continue to do so, and every cutting will contain some of it. It is somewhat slow in starting and does not make much growth the first year, being very much like timothy in this respect. It has a very light chaffy seed, and if I remember correctly a quart weighs only about seven ounces.

Many seem to be sowing timothy with alfalfa, but timothy is too slow in growth early in the spring for a companion of alfalfa and recovers too slowly after cutting to keep pace with it—the later cuttings of alfalfa containing little, if any, timothy.

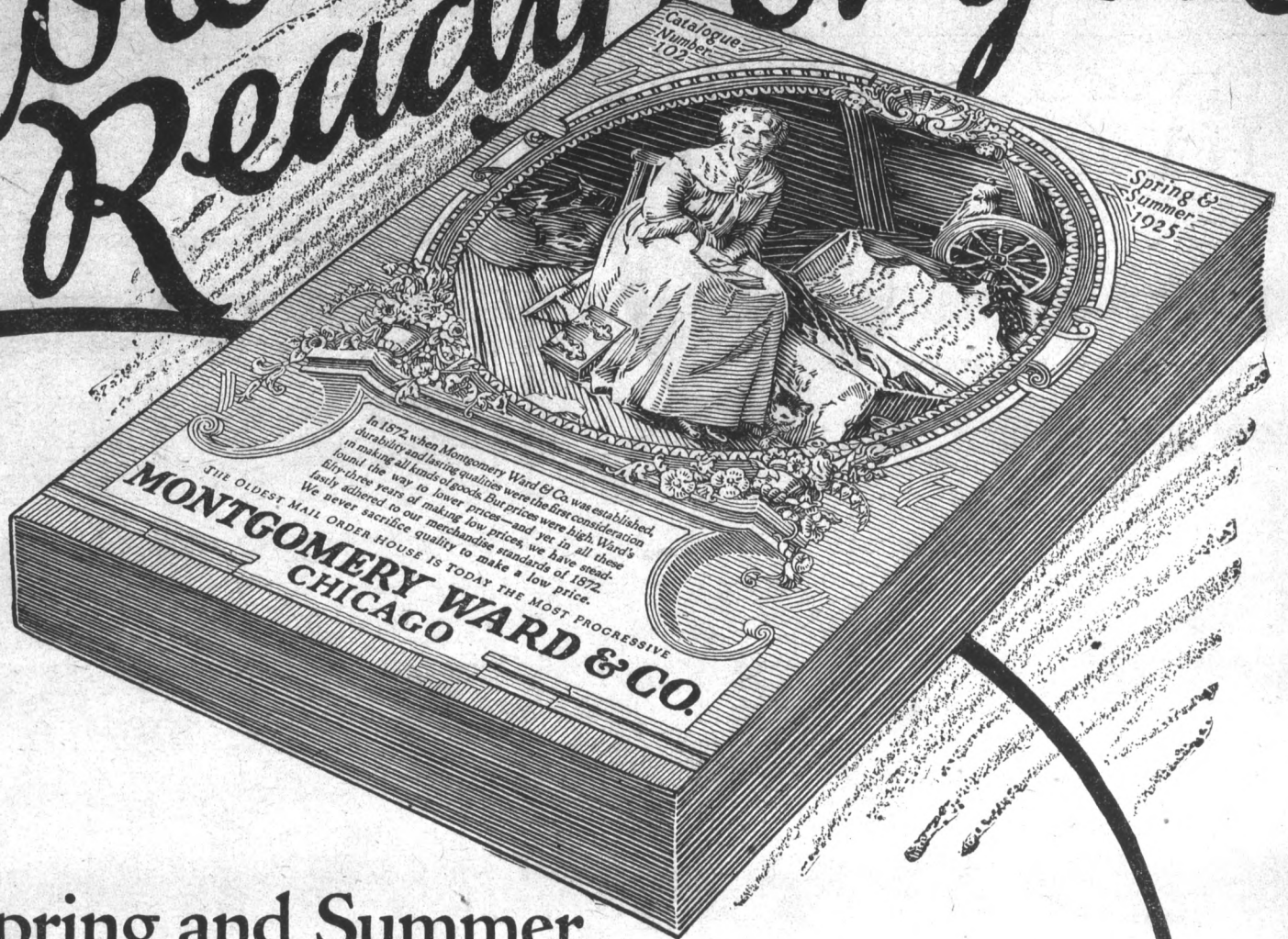
So after trying this and that we have decided to sow orchard grass with the Grimm this year, and if our former experience can be duplicated, we shall be very grateful.

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.)

A Christian Program for the Rural Community.—By Kenyon L. Butterfield, A. M., LL. D., President of the Michigan Agricultural College. This book contains the Fonden Lectures for 1923, delivered before the School of Technology of the Southern Methodist University. It is a constructive hand book of modern methods in rural church efficiency. The book contains 188 pages and is divided into five chapters under the following headings: The Need of a Christian Program, Chapter 1; The Principles Involved, Chapter 2; Some Appliances to Rural Affairs, Chapter 3; The Organs of Christian Rural Progress, Chapter 4; Christianizing the Rural Community, Chapter 5. It is 7 1/2 inches by 5 1/2 inches, has cloth binding and we will send a copy postpaid to any address for \$1.50. Published by George W. Doran Company.

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Ward's Spring and Summer Catalogue—Is Yours FREE

JUST imagine one vast floor, containing over 100 acres, and filled with sixty million dollars' worth of fresh, new merchandise!

That is exactly what is back of Ward's catalogue. That is what Ward's big stores contain.

And this Catalogue brings into your home the wonderful opportunity to choose whatever you wish, whatever you like best, from one of the greatest assortments of bright new merchandise ever gotten together.

Is a Saving of \$50 Interesting to You?

There is a saving of \$50 this season for you—if you write for this book and buy everything you need at Montgomery Ward & Co.

All over America we have searched for bargains. In Europe our buyers have found bargains for you. We have gone to every market where "quality" goods could be bought for cash at lower-than-market prices.

"Ward Quality" is a Guarantee of Satisfaction

We never sell unsatisfactory goods that are merely "cheap." We offer no "price baits." We never sacrifice quality to make a low price.

You will find it a pleasure to deal with a house like Ward's—where your satisfaction is the first consideration—where every piece of merchandise is tested to make sure it will give you service.

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Ward's originated the mail order business in 1872. In our Catalogue of 1876 we published the first mail order guarantee: "Your money back if you are not satisfied." And this spirit of the Golden Rule, of dealing as we would be dealt by, of selling only the satisfactory kinds of goods that we ourselves would want to buy—this spirit of satis-

faction and service to our customers has been the corner stone of Ward's for fifty-three years.

Everything for the Home, the Family and the Farm

The Woman—young or old—will find this Catalogue a pleasure. From the latest New York Fashions for the college girl, to the most beautiful new dresses and hats and coats for the mother—all selected in New York by our own Fashion experts.

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The Home has been our especial study. We try to offer the new things, household inventions, new designs in rugs or curtains, the best in furniture—everything that goes to make the delightful home. And our low prices often make possible the purchase of many more things than otherwise could be bought.

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Please mail my free copy of Montgomery Ward's complete Spring and Summer Catalogue.

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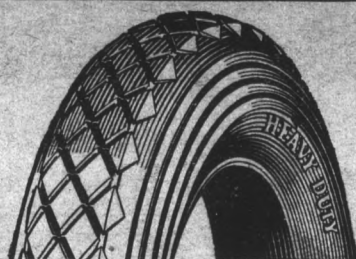
The Oldest Mail Order House is Today the Most Progressive

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Goodyear HEAVY DUTY Cord Tires are available from Goodyear Dealers in the following sizes:

30 x 3 1/2 (CL.)	34 x 4 1/2 (S.S.)
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32 x 4 1/2 "	34 x 5 "
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For those who desire balloon tires Goodyear makes a complete line, including the HEAVY DUTY type in certain sizes.



Specially designed for HEAVY DUTY

Here's a new tire—an ideal tire for the man who drives a big heavy car or whose route takes him over rough roads.

It's the new Goodyear HEAVY DUTY Cord Tire.

Examine it, and you'll find it stronger and more massive in every way than the standard tire you are used to. Its powerful athletic body is made of SUPERTWIST, the famous new Goodyear cord fabric, and made extra heavy to withstand the shocks and jolts of hard driving.

Its thick, deep-cut, full All-Weather Tread combines maximum traction with long, slow wear.

Even its sturdy sidewalls are reinforced against rut-wear by stout concentric rubber ribs.

Naturally, this new HEAVY DUTY Goodyear costs a little more than the standard Goodyear tire.

But where extra stamina and strength are needed, it is really the cheapest tire to buy in the end.

The complete Goodyear line contains the tire you want at the price you want to pay

GOODYEAR

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MICHIGAN



Farmers Service Bureau

(A Clearing Department for farmers' every day troubles. Prompt, careful attention given to all complaints or requests for information addressed to this department. We are here to serve you. All inquiries must be accompanied by full name and address. Name not used if so requested.)

LAW AGAINST HUNTING ON SUNDAY

We would like to know if there is any law on hunting on Sunday in the State of Michigan.—A. S., Manitou Beach, Mich.

THERE have been passed acts making it unlawful for a person to hunt on Sunday on lands or premises of another in the counties of Oakland, Livingston, Sanilac and in several townships of the counties of Wayne and Macomb, without the consent of the owner of the premises. This appears to be the only law on the subject.—Clare Retan, Deputy Attorney General.

UNABLE TO GET TITLE TO CAR

I bought from a company trading in a Ford car and paid them one hundred thirty-five dollars in cash and two dollars for making out the title last October. I have a receipt for all the money I paid them but have never received my title. I went to see them and they told me they would do all they could for me but I told them I wanted my money back or the title. I do not think they can get the title. Kindly advise.—V. V., Sanford, Mich.

IF they cannot furnish you with a title to the car you purchased of them, I am of the opinion you could sue and get your money back.—Legal Editor.

INMATES AT STATE HOSPITAL FOR INSANE

I would like information on who pays for the inmates at the State Hospital for the Insane.—A. J. S., New Era, Michigan.

THIS matter is provided for under terms of Act No. 151 of the Public Acts of 1923. A private patient is one kept and maintained without expense to the state. This is also true of voluntary patients. Public patients are kept and maintained at the expense of the state except when the public patient is possessed of an estate, or has relatives who are legally liable for his support and who are able to contribute thereto, when his estate, or his relatives may, upon a proper petition presented in the probate court, be ordered to contribute towards the expense of maintenance. The county of which the public patient is a resident, is charged for the first year's maintenance.—Harry Sweeny, Public Administrator, Attorney General's Dept.

WHO MUST PAY DAMAGES?

Last spring I rented a pasture for twelve head of young stock and paid fifty dollars cash. The pasture was located about ten miles from my home and contained six hundred acres of wild land, well fenced and with plenty of good feed. About November 17th the cattle accidentally got out on the road and a fellow with

his automobile drove into the bunch of cattle and damaged his car and he came to me for seventy-five dollars damages, but I refused to pay same. He has sent me a letter since. Kindly advise what I can do.—C. M., Honor, Mich.

IF the driver of the car was guilty of any negligence, I am of the opinion he would not be able to collect damages from the owner of the cattle. It is principally a question of fact depending on the circumstances, and I would advise you to retain a lawyer to defend you in case he sues for damages.—Legal Editor.

MUST UNDERTAKER BE HIRED?

Where a person dies, of no catching disease, and the cemetery is close by, does that person have to be embalmed? Or do they have to have an undertaker to wash them and lay them out? Or does the law of Michigan compel the folks to get an undertaker and embalm the dead body against the dead persons wishes?—Mrs. T. H., Cedar Springs, Michigan.

AS a matter of protection to public health it is customary that an undertaker be secured in every case where a death has occurred. However, there is a proviso in the law which says that any person can prepare a dead human body for burial as long as he does not act in the capacity of an undertaker or embalmer. This, of course, should only apply in ordinary cases and not in cases of dangerous communicable disease.—F. J. Pienta, Director, Bureau of Embalmers, Michigan Department of Health.

DOG TAX

Should the dog tax money go into the county contingency fund?—B. F.

ACT 339 of the Public Acts of 1919 provides that this fund shall go into the general county fund. The Act referred to is the so-called dog law.—Clare Retan, Deputy Attorney General.

LANDLORD SHOULD PAY TWO-THIRDS

I am working a place for a third and I supposed that the landlord was to pay two-thirds of all threshing bills and he says I have to pay all of the corn shredding bill. Would I have to or not? Doesn't that go in with grain threshing, or is it manual labor? Can I make him pay his two-thirds of it?—M. B., Sterling, Mich.

MACHINE work hired such as threshing, shredding, etc. are farm expenses, which are divided in same proportion between landlord and tenant as income. In this case the landlord should stand two-thirds of such expense unless otherwise agreed upon.—T. T. Riddell, Research Assistant in Farm Management, Michigan Agricultural College.



What the Neighbors Say

Contributions Invited

KEEP COURT FREE FROM POLITICS

DEAR EDITOR:—It is of vital importance to the farmers and all citizens of Michigan that our Supreme Court be kept free from political and executive domination. The present Governor of this state who has encroached on the Legislative branch is now engaged in an effort to control the Judicial. His state machine is seeking to compass the defeat of Chief Justice McDonald and Justice George M. Clark for several reasons. The foremost reason is that decisions have been rendered during the past year contrary to the ideas of the Governor and the State Administrative Board. And the most offensive decision was in the case of the Board of Agriculture against the State Administrative Board. Justice McDonald wrote the opinion. I have examined this and as a lawyer do not hesitate to pronounce it founded on constitutional ground. Surely the farmers of Michigan will

not look with any favor on the unseating of Justices of the Supreme Court because they decided that the constitutionally created Board of Agriculture can not have its prerogatives curtailed by a creature of the Legislature, at the bidding of the Governor.

The politicians who are linked up with the present politically operated administration of our state, should not be allowed to control the County Convention which on February 25th nominates the Justices of the Supreme Court.—F. W. Newton, Saginaw, County, Mich.

AGAINST ROGERS

TO the Editor:—In the December 20th issue of THE BUSINESS FARMER, I noticed a statement that read "Keep Rogers In," and at the same time you stated that we have 14,000 miles of road construction at a cost of \$150,000,000. I think you know as well as I do that (Continued on Page 26)

SOILS AND CROPS

Edited by G. J. WRIGHT

THE ELEMENTS MOST NEEDED IN MICHIGAN SOIL

IN former articles we have tried to acquaint the reader with natural elements and the impossibility of destroying them but we must take into consideration the fact that we can move them from one place to another, thus making it possible for man to govern to a certain extent the growth of his crops.

The first element to be taken into consideration in the growth of a plant is Nitrogen—this may be termed the keystone on which crops are built and an element in which most of our soils are lacking and fortunately the one element that any farmer can enrich himself in without going away from his farm to do it; by the way, it is an element which is thoughtlessly wasted by nearly every one of us, and also the most costly when bought outright in the form of commercial fertilizer.

It is the element which forces the growth of a plant and is noticed the most, by the dark green color and thrifty look in the plant structure. Of the total-dry matter of certain legumes it comprises percentages as follows; Alfalfa 50%, clover—Red Mammoth and Alsike—35 to 37%, Vetch 35%, cow peas and soy beans 7 to 10% and if the soil is sweet enough so that the nodule forming bacteria are present these plants extract in some cases as much as 65% from the air and in case the nodule forming bacteria is not present, these plants take all their nitrogen from the soil and in a case like this they are not much better from a soil building standpoint than a crop of corn, oats, timothy or wheat.

Nitrogen is more susceptible to leaking and evaporation than any of the other elements with which we have to contend on the farm. When you see a pile of horse manure smoking on a warm day that smoke is nothing more than nitrogen escaping in the form of ammonia gas, also when you see the brown water running down hill from a manure pile after a rain you also see a nitrogen loss through leakage.

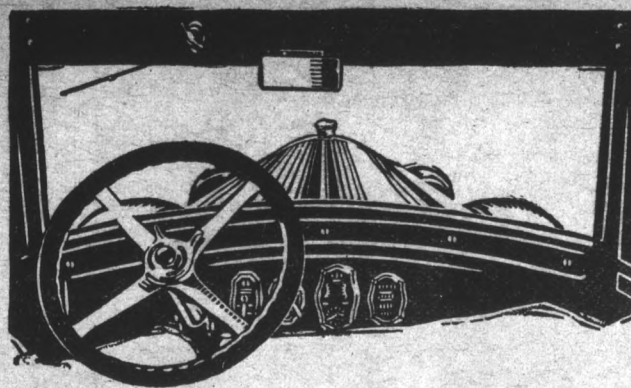
Let me call attention to the fact that this leaking of the barnyard manure on nearly every farm is the biggest preventable waste on any farm. It is estimated of all the crops fed on the farm over one-half of their fertilizing value is lost.

Let me also call attention to this fact, that the crops sold from the farm, all the elements are lost to the farm on which they were raised. This fact is the cause of the condition that exists on land that has been farmed as grain farms, raising from five to ten bushels of wheat where formerly it raised twenty to thirty.

The next element of which we are in need is Phosphorus. This element is needed in maturing crops and in making the grain plump and heavy. It also assists plants in making a rank growth, though not to the extent of nitrogen. There is only one way to get this element back on a farm when once taken off and that is to buy it in some form; in a well balanced soil it should have a ratio of one of phosphorus to three of nitrogen or even a greater ratio than this. The commercial phosphorus is available to the farmer from the following sources: Raw rock phosphate, acid phosphate, basic slag from the mines and ground bone. Acid phosphate and ground bone being the more quickly available to plants than the others of the group. This element is the cheapest of any of the elements to buy and we cannot get it back on the farm unless we do buy it.

The next element to be taken into consideration is Potassium or Potash. This also must be bought when needed but most upland soils are pretty well supplied with it in Michigan, but in many cases an addition of a little available potash does wonders on a clover or grain crop. The marsh and muck lands are very low in this element and great results are obtained by its application on low land soils, and sometimes it is the difference between success and failure. The chief commercial forms are German Kainit and Muriate of Potash. This next to nitrogen is the most expensive element in commercial fertilizer.

(Continued on Page 22)



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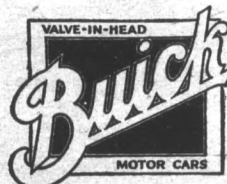
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The Power of the Human Touch

A NON-SECTARIAN SERMON BY

Rev. David F. Warner

Text: "Inasmuch as ye did it unto one of these my brethren, even these least, ye did it unto me." Matt. 25:40.

"THE Vision of Sir Launfal"
Many will recall with delight because of having nursed in their own hearts the sympathetic imagery of the poem. The "maiden knight" goes forth, noble and strong, in search of the Holy Grail. Legend says this sacred cup of the Last Supper was lost, and if found would be himself. Sir Launfal, well mounted, sets out on his mission with all the ardor and chivalry of a gallant young manhood. Just outside the castle gate there crouched a leper "who begged with hand and moaned as he sat." In loathing, the knight cast the beggar a coin and hurried on in quest of the sacred treasure.

"The leper raised not the gold from the dust.
Better to me the poor man's crust."

The young knight braves bleak mountains, arid deserts, and fierce storms, in his far-away quest, until aged and gray, he leaves his vain search to return homeward in worn-out garments and spirit. Drawing near the castle gate in the dim of a

tion of all, ate with them and thus hastened the hour of His Cross. And now hear Him: "When thou makest a dinner * * * call not thy friends or rich neighbors. But bid the poor * * * and thou shalt be blessed." When? Where? Well, sometime and somewhere. But why not have this blessing now? This is "Thy kingdom come and thy will be done on earth." "Blessed is he that shall eat bread in the Kingdom of God." Of course, this way has its Calvary, but it ends in the resurrection glory.

Now again, the Christ is exalting down-trodden womanhood. In a Western city, I walked into the lecture room of a new culture society, so-called. I listened a while. The Bible is a myth and Jesus never existed. And there sat a lot of women bowing down to such grotesque nonsense. Strange that the One who has done so much to glorify womanhood, must be reproached in this pathetic way. The women of Jesus' day were used as playthings and drudges. Society gave them a standing much below men. Hard men divorced them at will. "But did not Moses allow this," they said. But Jesus said that this was when society was rude and

REV. WARNER RETURNS

THE sermon on this page indicates a return to my former ministry among you. I do this in a real, but humble, delight. Now, a preacher is fortunate in knowing what folks need, rather more than what they want. Do my sermons meet your need, or not? And I hope you will feel disposed to inquire freely about any spiritual problems you may have in the ways of life.—Rev. David R. Warner.

cold, gray morning, there cowers beside him the gruesome leper, "lank as a rain-blanch bone." "For Christ's sweet sake I beg an alms", the leper said. "I behold in thee an image of Him who died on the tree," said Sir Launfal. And he

"Parted in twain his single crust,
Broke the ice on the streamlet's brink,
And gave to the leper to eat and to drink."

"The Holy Supper is kept indeed,
In whatso we share with another's need;
Not what we give, but what we share
For the gift without the giver is bare,
Who gives himself with his alms, feeds three,—
Himself, his hungering neighbor, and me."

Sixty generations ago, in an age of rudeness and oppression, The Galilean sets out in defense of the weak, the poor, and the diseased. Let us contemplate Him for a little while as he travels afoot over the hills and through the dales of old Judea. He hears of a reform movement going on down by the Jordan. Soon he is there and is witnessing the induction service. He, also, asks to be baptized by John. But why receive this baptism of repentance? He is sinless. It seems unnecessary. John said that it was. He might be misunderstood. But no matter. Men needed to repent. He must show them the way. This movement, started by the Baptist, must be glorified by the Sinless One, who would identify himself intimately and sympathetically with the causes of the common people who were ready and longing for deliverance from personal and social sins. How like the heart of Jesus!

Now, he is helping the suffering. There were few agencies in those days given over to the soothing of pain and physical distress. Jesus had pity and the healing touch. The shrieks of the demon possessed found his ears. The ostracized leper found sympathy in his heart and help in his hand. No, the church folks did not understand. But, no difference. The social chasm must be bridged that human suffering might be alleviated.

Now, we find Him interested in those who were outcast by the organized religion of the day. The preachers and pious folks called them "publicans and sinners". They were dangerous and demoralizing. Good church members kept their distance for the sake of their reputation. But Jesus, to the consterna-

brutal. The law of ideal marriage does not allow this. You cannot divorce your wife at every personal whim. This would destroy God's intention for a solid social structure. You twain as one flesh until death parts you. What great need that the Master's voice be made authoritative for today!

There is Jesus in conversation with the outcast woman at Jacob's well. What moral courage! Again he is in the center of a group of adulterers into his midst. She had been the victim of the lecherous male. The church law said that she must be stoned to death. But what would this New Rabbi say? Surely, here is a sure trap, they thought. But the trap sprung upon themselves. Says Jesus, "He that has not committed this same sin may do the stoning." No stones were cast. The cowards are gone. We need to look long and sympathetically at this picture. Jesus is yet in the world to give, even the woman of the street, the help of a human heart and a human hand.

Would you have an ideal picture of human kindness? Of course you remember about the man that was going from Jerusalem to Jericho. You remember how the preacher and the deacon "passed by on the other side." And then you remember how the unchurched Samaritan came up and helped the robbed and bruised man. A lovely picture of the human touch. And why did Jesus paint it? So that we might pass it on. The religion of Samaritanism would be a fine thing to possess before we brag about our Christianity.

"Have you had a kindness shown?
Pass it on;
'Twas not given for these alone,
Pass it on;
Let it travel down the years,
Let it wipe another's tears,
Till in heaven the deed appears—
Pass it on."

"Go and do thou likewise," said Jesus to the selfish critic. Many of my readers will recall that this spirit of neighborliness was at the very core of the social life of the community when they were felling trees, homes in the clearings. Now, David Grayson had a "little farm well-tilled, a little wife well-willed, and a little home well-filled. But, life grew so narrow and drab that one day he wondered whether he possessed the farm or the farm possessed him. He was afraid of the latter;

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and so, one fine morning he started out to visit his neighbors and to show them and himself how the roadway of a humdrum life can be made into "The Friendly Road". Why not try this simple departure, brother farmer? Someone is calling for you now just over the hill.

God sent himself in human form and with human hand, into this world to touch it into new and brotherly living. Now, we have had our Example and have given his spirit, so that your hands and mine, the hands of a common humanity, might do his work of love. "Inasmuch as ye did it unto one of these my brethren, even these least ye did it unto Me."

RADIO DEPARTMENT

By J. Herbert Ferris, R. E.

M. A. C. TO PUT ON SPECIAL RADIO SCHOOL

WE have been advised by J. B. Hasselman, supervisor of publications, and announcer at radio station WKAR, at the M. A. C., plans to start a special agricultural radio school, to be given from 7 to 8 o'clock, from Monday to Friday inclusive each week. These radio courses will include such subjects as dairy production, poultry, farm crops, gardening, live stock, and other phases of agriculture. They will adapt these programs to what seems to be the demand from farmers of the state. When the agricultural series starts, they will postpone their regular Monday and Friday educational programs until 8 o'clock. We will give you more details later.

SHARE YOUR WEATHER REPORTS

MANY of your neighbors have not receiving sets and so can not get the advantage of all the good things you get every night, so why not share with them the weather reports?

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It will not be long before you will see many neighbors as well as strangers in front of that bulletin board looking for the weather report. Try it out, you'll like it and so will they.

RADIO PROGRAMS

Broadcast Tuesdays at 8:20 P. M. and Thursdays at 7:30 P. M. from Westinghouse Radio Station KYW, Chicago, Ill.

February 17—"Farmers at School," by C. L. Kutt, teacher of Vocational Agriculture, Antioch, Illinois. "Grain Market Review," by J. W. Coverdale, secretary-treasurer, Grain Marketing Company.

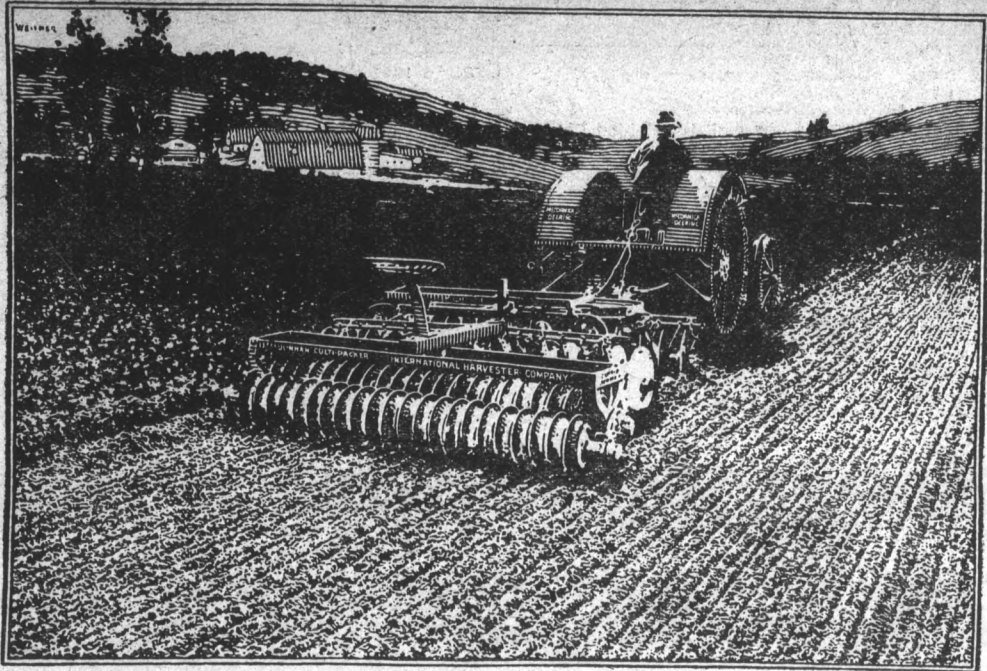
February 19—"Grain Marketing and the Club Boys and Girls," by Gray Silver, president Grain Marketing Company. "Five New Facts About Corn," by Arthur C. Page, editor, Orange Judd Illinois Farmer.



J. B. HASSELMAN

Supervisor of publications, at the M. A. C. and announcer at the College's radio station WKAR. "Jimmie", as he is known to his friends, has a pleasing personality that makes itself known the moment you grasp his hand or hear his voice and he will win a host of friends from among the radio listeners.

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The Michigan BUSINESS FARMER

SATURDAY, FEBRUARY 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 an advertiser in these columns, the publisher would appreciate an immediate letter, bringing all facts to light. In every case where writing say: "I saw your advertisement in The Michigan Business Farmer!" It will guarantee honest dealing.

"The Farm Paper of Service"

DO FARMERS WANT STATE POLICE?

UNDOUBTEDLY what will develop into the liveliest scrap at Lansing during the present session will be the proposed bill to abolish the uniformed division of the State Police.

Of course the first excuse given for this procedure is to reduce the cost of state operation inasmuch as the department has been costing upwards of \$350,000 a year, requested over \$800,000 for each of the two coming years, which budget the administrative board cut to \$460,000 but these figures included the estimated cost of prohibition enforcement work in Wayne county, while the figures fixed by the administrative board does not include anything for special prohibition work.

The value of the State Police to farmers is a much debated question and one on which there might as well be a frank discussion. If the State Police are really the protectors of the farm home they should be defended as such and if they are of little consequence to the rural residents then it is high time that this excuse for their existence be abolished.

Labor leaders point out that the uniformed "cossacks" who dash madly up and down our roads belted with cartridges and with revolvers hanging in wild western fashion at each hip are in fact supported only for the protection of strike breakers and to terrorize union labor.

We are going to open the columns of THE BUSINESS FARMER to a complete discussion of the State Police problem as it affects the farmers in this state. We are not concerned in the least as to their value as prohibition agents or for the protection of strike breakers. We want to know whether the farmers of Michigan are willing to support the State Police to the tune of \$460,000 a year. If you want them we will help you hold them and even increase their numbers if they are of genuine benefit. But let us hear from you!

DON'T CHANGE THE NAME

WHOEVER is responsible for the proposal to change the name of the Michigan Agricultural College to the Michigan State College certainly cannot look to the men and women who make their living from agriculture in Michigan for support.

In our last issue we asked our readers to indicate on a referendum coupon whether or not they were in favor of changing the name, and up to the day that this is written out of several hundred replies which we have received not one single reply has indicated that they favored the change. From where then comes this demand for the change in name of an institution with such an honorable career behind it?

Who can help us chase this nigger out of the wood pile? Who wants the name of The Michigan Agricultural College changed? What are the advantages in the change of the name? Why should the name be broadened to include everything that one naturally expects to find at the University of Michigan?

There is no college or university in the United States with more tradition behind it than the Michigan Agricultural College and if it has been allowed to devote more of its time than it should to branches of industry entirely foreign to agriculture, then the farm leaders, the farm organizations, the farm press and the farmers them-

selves in our state are responsible and it is high time that action was taken to stop this diverting of purpose before it is too late.

That the farmers of Michigan are not in favor of a change in name is indicated by reports of meeting and their letters received daily.

For instance, the Ingham County Pomona Grange met January 31st and report that "After a somewhat lengthy discussion it almost unanimously adopted a resolution in favor of no change in the name of the Michigan Agricultural College. The name stands as a memorial to the first institution of its kind in the world and the wisdom of its founders and the men who gave their best years to make it what it is now. Also to the honor of the men and women who have been trained there for some of the big jobs of world's work which they have done and are doing so well. Just a few of the many reasons for no change."

Then Theodore Bengel of Fowler says, "I agree with the statement in your last week's editorial where you say 'The Michigan Agricultural College should be a school for teaching agriculture in its various branches. The university and other colleges offer splendid opportunities for other branches of study and our old M. A. C. should be left intact, even its name. The farmers have shown more interest in their college during the last five years than ever before. Leave well enough alone.'"

We sincerely believe that with the united efforts of the farm organizations in the support of our movement, THE BUSINESS FARMER can squelch the matter until it has been given ample publicity and full discussion and we do not hesitate to take credit for bringing to light an attempt to slide through a change which at best is unpopular and in our opinion, a sacrilege to a sacred name.

If this matter has not already been voted on in your Grange, Farm Bureau or Gleaner meetings please bring it up and let us have a report of the votes as taken. It is also an excellent subject for debate and we will appreciate any ideas that our readers may have on it.

MARKETING LAW

CO-OPERATIVE marketing legislation was urged upon Congress for consideration at the present session in a report presented to President Coolidge the latter part of January by the President's agricultural conference.

The President promptly asked that the machinery set in motion to enact the proposed legislation if possible before March 4th. The President's agricultural conference also advocated adoption by Congress of the long pending resolution directing the Interstate Commerce Commission to readjust freight rates with a view to relieving farm products of a disproportionate share of transportation costs.

Under the resolution the Interstate Commerce Commission is directed in view of the condition of agriculture to make such lawful changes in the rate structure as will promote the freedom of movement of farm products, including livestock, at the lowest possible lawful rates compatible with the maintenance of adequate transportation service.

The President's conference in its report approved adequate tariff protection for farm products, but deferred specific recommendations for presentation when the next Congress takes up general tariff revision.

The conference also approved the truth in fabrics bill providing for compulsory branding of percentages of virgin wool, shoddy cotton and silk contained in woven fabrics.

Recommendations in the recent report dealing with the emergency situation in the live stock industry were renewed and elaborated upon.

The conference presented a detailed plan for co-operative marketing legislation patterned

EDITOR, THE BUSINESS FARMER,
Mt. Clemens, Mich.

I AM ()

I AM NOT ()

in favor of abolishing the uniformed constabulary of the Michigan State Police.

Signed

Member of

Address

If you do not care to mutilate this issue, simply express your vote on a penny postal card. We would appreciate reports on this subject in Grange, Gleaner or Farm Bureau meetings. Also any additional reasons or remarks which you care to make on the subject.

somewhat after the pending Capper-Williams bill, but with some differences.

The plan contemplates the creation of a Federal co-operative marketing board of five members, two of whom shall be the Secretary of Agriculture and the Secretary of Commerce, and the three others, including a chairman to be appointed by the President, to be nominated by the federally registered co-operative marketing organizations upon the expiration of the term of the three members first to be appointed by the President.

AND THEN WHAT?

AN article in one of the current issues of a national farm publication tries to defend tenant farming as against the operation of farms by their owners.

Obviously we will grant that if the owner is not as good a farmer as the tenant that it is much preferable to have the tenant than the owner, but our experience would not lead us to believe that this is, in the majority of cases, the way it works out.

So far, the tenant farming problem has not become as acute in Michigan as in some nearby states where the number of tenanted farms surpasses the number of farms operated by their owners.

Unquestionably many good farmers find it necessary to rent a farm or to operate one on shares before they are able to purchase one and if they do succeed as tenants they become the best class of farm owners and operators, but where the trend of conditions points to more tenants than owners we cannot feel other than alarmed at the situation.

The plodding tenant farmer is not in a much better position than the European peasant and surely any one who has seen conditions on the other side would not want it repeated in the United States.

The same article goes on to say, "Better that 60 per cent of our farms should be operated by intelligent, high grade tenant farmers than that 90 per cent should be farmed by owners who are shiftless and unprogressive," but we seriously challenge the statement that 90 per cent of the farms of this country are owned by shiftless and unprogressive farmers. If that is what this writer tried to convey he is certainly not familiar with conditions that exist in at least the state we know best. If he will reverse his figures and say that ten per cent of the farms are farmed by shiftless and unprogressive farmers, we might agree with him.

We cannot acquiesce to any plan which would change the ownership method of farming in America and we shall continue to do all in our power to keep the farms of, at least the State we love best, in the hands of the men and women who have been reared on these fertile acres and who feel that pride which only comes with ownership, as they survey from their homes, the product of their energy and foresight.

We have full sympathy for, and an earnest desire to help the tenant farmer; but not to keep him satisfied! We want to help him arrive at that point where he can proudly say, "I am the owner of his farm!" And nothing short of that can satisfy us.

CHICK HATCHERIES GROW IN OTTAWA

OTTAWA county which has become known as the leading poultry section in the country numbers close to 100 hatcheries and the chicks from these hatcheries are sent annually to hundreds of places in the United States. Holland and vicinity are represented by 47 hatcheries and the chicks dispatched by parcel post from the Holland postoffice approximate several million annually. It is estimated the total shipments from the county annually exceed 5,000,000 chicks.

Ottawa lists among its hatcheries some of the largest and finest in the country. Many hatcheries were started on a small scale, but these have grown to meet the demand. The chick season is now on in full blast and indications are it will be the largest on record.

FARMER A "CROSS-WORD PUZZLE"

THE farmer is the cross-word puzzle of American business", declared John M. Kelly, dairyman of Baraboo, Wis., in his Farmers' Week address. He recommended that farmers organize, centralize, merchandise and advertise and deplored the fact that manufacturers' substitutes for dairy products have "stolen the thunder" of the farmers by capitalizing the health and beautiful-girl ideas in their advertising.

He showed that advertising has resulted in the sale of \$350,000,000 worth of condiments—far greater than the amounts spent for milk and milk products, which he held to be the real beauty prescription.

PUBLISHER'S DESK

JUST TOO LATE — TO CATCH THE CATTLE SWINDLER

THE BUSINESS FARMER has carried announcements from J. C. Hays, Secretary of the Michigan Holstein Association warning against a cattle swindler going by the name of H. C. Helms.

Hays writes us that on two occasions recently he has received news from victims of this smooth worker. In each case the swindled breeder saw the printed warning the evening of the same day that the rascal made his touch!

The last word of this crook's work comes from a farmer at Girard, Illinois. Helms, using the name of L. E. Cox, worked a new variety of his favorite scheme, which is to buy cattle with a bogus check, then get the victim to endorse a check for him for his personal needs. He offers identification in the shape of letters of credit and telegrams from some southern bank. These credentials are fictitious. Helms moves on leaving his victim with some worthless paper and without some real cash.

"Let's get ahead of this fellow instead of a few hours behind him," writes Hays. "If we keep up our warnings so that more breeders are posted he will soon tackle some farmer who will be on to his scheme. Then his prospective victim can have him arrested by local police, pending serving of warrants by any one of six men whom he jointly robbed of over \$2000.

So look out 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.

SECURITY OIL COMPANY OF LOUISIANA

In 1920 I bought fifty shares of the capital stock of the Security Oil Company of Louisiana, incorporated under the laws of Colorado, at par price of \$1.00 per share. I have never received any interest or heard from the company. Do you know if the stock has any value?"

WE have investigated the stock of the Security Oil Company of Louisiana and find that it is worth between 20 and 30 cents a share. It is not to be wondered at that you have not received any dividends from your investment.

LEAVE THEM ALONE

"Will you kindly inform me as to the reliability of the firm whose letter I am enclosing? How thankful I am that I have your paper to go to when I am perplexed. Your paper is fine and I don't believe we will ever be without it."

I HAVE little faith in these work-at-home schemes where the customer is obliged to make a deposit in order to get the work.

I have found in the majority of these cases that the company was out after the initial payment only and the outfit sent to the subscriber cost only a small fraction of the down

payment and then the subscriber was unsuccessful in getting any work to do for the company.

The letter you received is not a personal letter but a printed one and has been sent to perhaps thousands of people in every state in the Union. If it was sent to only a thousand people and half of them accepted their proposition this would be five hundred dollars and the material sent out to these people would cost the company twenty-five dollars but I doubt if it would total that much.

ANSWERING AN AUTO KNITTER INQUIRY

WE cannot advise you as to the reliability of the Steber Machine Knitting Company of Utica, New York, but we have learned considerable about knitting machines for home use.

There are several companies that market machines for knitting socks, and it seems they are rather difficult to operate, as at least 50% of our subscribers have difficulty in learning the operation of these machines. Some of them have failed to master the details so that they could successfully knit a sock that would be accepted by the company, while others have been successful and highly pleased with the machine and the company.

It would be impossible for them to guarantee the purchase of all the wool socks for five years that you could make because the company might go bankrupt within a year, and if they went bankrupt of course it would be impossible to force them to purchase your output.

Write the company asking them for names and addresses of some of their Michigan customers, then write to these people asking about the company. This is the best way to find out about them.

GETTING POSITION AS MAIL CARRIER

"I would like to get a position as mail carrier. What must I do? Can the International Correspondence School help me get a job? Is this a good school?"

THE way you can get a position as mail carrier or mail clerk is to pass the Civil Service examination about which your postmaster can give you full information.

We believe the International Correspondence School of Scranton, Pennsylvania to be a good school, but of course they cannot get you a position with the Government. All they can do is to give you the proper training and it is up to you whether you can pass the examination or not.

RAISING RABBITS

"We have been looking at an advertisement about rabbits. Would you kindly let us know if this company is all right? The address is: Stahl's Outdoor Enterprise Company, Holmes Park, Missouri. This company agrees to sell you rabbits. Then they say they will buy back all the stock that one raises. We would like to know if this is a safe company or if it is a fraud."

WE have never had any complaints against the Stahl's Outdoor Enterprise Company of Holmes Park, Missouri and have never had occasion to investigate the company but we are rather skeptical of their plans.

We know of one concern that operated in New York seemingly along the same lines and they were finally brought into court charged with using the mails to defraud the people. Since then we have been skeptical of such schemes.

If Stahl's Outdoor Enterprise Company of Holmes Park, Missouri, is reliable they should be able to furnish you with complete names and addresses of different people throughout the country who have purchased rabbits from them and are in turn selling the stock that they raised back to them—and we would advise that you write to them requesting a list of people outside of Missouri so that you can write to them regarding their dealings with the company. If they ignore your request or make some excuse and do not furnish you with the names you may feel sure that their business will not stand investigation.

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

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Write to us, giving number of cows owned, also name of local feed dealer, and we will mail you a free copy of our famous book, "Feeding the Dairy Cow for Profit." Act!

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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 6 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.

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Mt. Clemens, Mich.
Report Ending February 6, 1925
Total number claims filed.....2629
Amount involved.....\$26,395.36
Total number claims settled.....2171
Amount secured.....\$24,217.23

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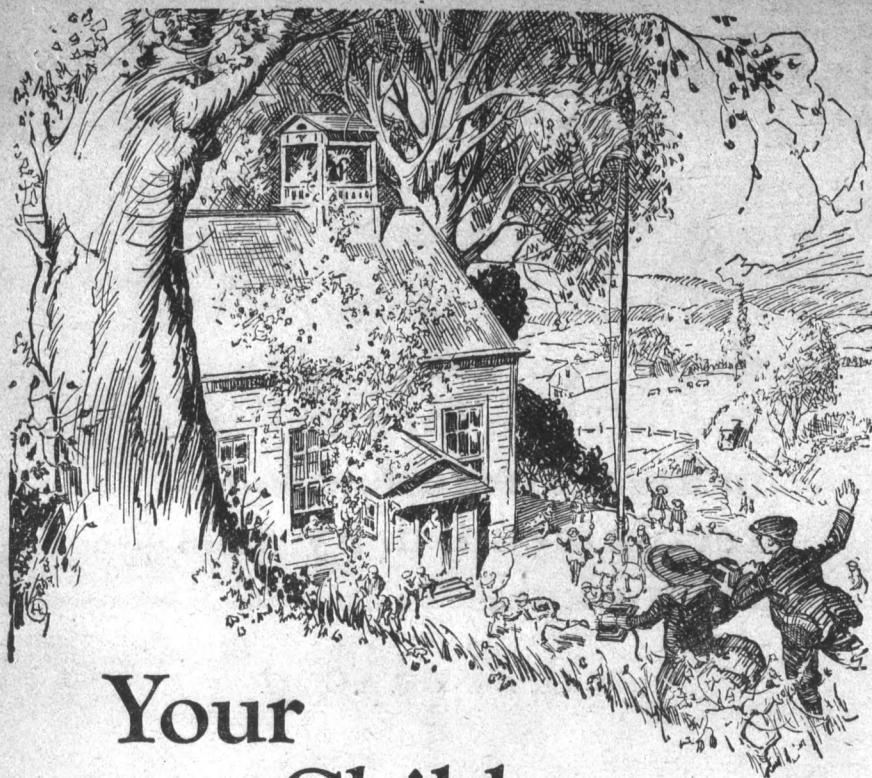
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The Indian Drum

By William MacHarg and Edwin Balmer

Copyright by Edwin Balmer

(Continued from Jan. 31st issue.)

"Is that his name? He told me it was Judah."

"Yes—Judah Wassaquam. He's a Chippewa from the north end of the lake. They're very religious there, most of the Indians at the foot of the lake; and many of them have a Biblical name which they use for a first name and use their Indian name for the last one."

"He called me 'Alan' and my father 'Ben.'"

"The Indians almost always call people by their first names."

"He said that he had always served 'Ben' his coffee that way before he got up, and so he had supposed he was to do the same by me; and also that, long ago, he used to be a deck hand on one of my father's ships."

"Yes; when Uncle Benny began to operate ships of his own, many of the ships on the lakes had Indians among the deck hands; some had all Indians for crews and white men only for officers. Wassaquam was on the first freighter Uncle Benny ever owned a share in; afterwards he came here to Chicago with Uncle Benny. He's been looking after Uncle Benny all alone now for more than ten years—and he's very much devoted to him, and fully trustworthy; and besides that, he's a wonderful cook; but I've wondered sometimes whether Uncle Benny wasn't the only city man in the world who had an Indian body servant."

"You know a good deal about Indians."

"A little about lake Indians, the Chippewas, and Pottawatomies in northern Michigan."

"Recollection's a funny thing," Alan said, after considering a moment. This morning, after seeing Judah and talking to him—or rather hearing him talk—somehow a story got running in my head. I can't make out exactly what it was—about a lot of animals on a raft; and there was some one with them—I don't know who; I can't fit any name to him; but he had a name."

Constance bent forward quickly. "Was the name Michabou?" she asked.

He returned her look, surprised. "That's it; how did you know?"

"I think I know the story; and Wassaquam would have known it too, I think, if you'd ask him; but probably he would have thought it impious to tell it, because he and his people are great Christians now. Michabou is one of the names for Manitou. What else do you remember of the story?"

"Not much, I'm afraid—just sort of scenes here and there; but I can remember the beginning now that you have given me the name: 'In the beginning of all things there was only water and Michabou was floating on the raft with all the animals.' Michabou, it seemed, wanted the land brought up so that men and animals could live on it, and he asked one of the animals to go down and bring it up—"

"The beaver," Constance supplied.

"Was the Beaver the first one? The beaver dived and stayed down a long time, so long that when he came up he was breathless and completely exhausted, but he had not been able to reach the bottom. Then Michabou sent down—"

"The otter."

And stayed down much longer than the beaver, and when he came up at last, they dragged him on to the raft quite senseless; but he hadn't been able to reach the bottom either. So the animals and Michabou himself were ready to give it up—but then the little muskrat spoke up—am I right? Was this the muskrat?"

"Yes."

"Then you can finish it for me?"

"He dived and he stayed down, the little muskrat," Constance continued, "longer than the beaver and the otter both together. Michabou and the animals waited all day for him to come up, and they watched all through the night; so then they knew he must be dead. And, sure enough, they came after a while across the body floating on the water and apparently lifeless. They dragged him onto the raft and found that his little paws were all tight shut. They forced open three of the paws and found nothing in them, but when they opened the last one, they found one grain of sand tightly clutched in it. The little muskrat had done it; he'd reached the bottom! And out of that one grain of sand, Michabou made the world."

"That's it," he said. "Now what is it?"

"The Indian story of creation—or one of them."

"Not a story of the plain Indian surely."

"No; of the Indians who live about the lakes and so got the idea that everything was water in the first place—the Indians who live on the islands and peninsulas. That's how I came to know it."

"I thought that must be it," Alan said. His hand trembled a little as he lifted his coffee to his lips.

Constance too flushed a little with excitement; it was a surprisingly close and intimate thing to have explored with another back into the concealments of his first child consciousness, to have aided another in the sensitive task of revealing himself to himself. This which she had helped to bring back to him must have been one of the first stories told him; he had been a very little boy, when he had been taken to Kansas, away from where he heard this story—the lakes.

She was a little nervous also from watching the time as told by the tiny watch on her wrist. Henry's train from Duluth must be in now; and he had not yet called her, as had been his custom recently, as soon as he returned to town after a trip. But, in a minute, a servant entered to inform her that Mr. Spearman wished to speak to her. She excused herself to Alan and hurried out. Henry was calling her from the railroad station and, he said, from a most particularly stuffy booth and, besides having a poor connection, there was any amount of noise about him; but he was very anxious to see Constance as soon as possible. Could she be in town that morning and have luncheon with him? Yes; she was going down-town very soon and, after luncheon, he could come home with her if he wished. He certainly did wish, but he couldn't tell yet what he might have to do in the afternoon, but please would she save the evening for him. She promised and started to tell him about Alan, then recollected that Henry was going to see her father immediately at the office.

Alan was standing, waiting for her, when she returned to the breakfast room.

"Ready to go down-town?" she asked.

"Whenever you are."

"I'll be ready in a minute. I'm planning to drive; are you afraid?"

He smiled in his pleasant way as he glanced over her; she had become conscious of saying that sort of thing to tempt the smile. "Oh, I'll take the risk."

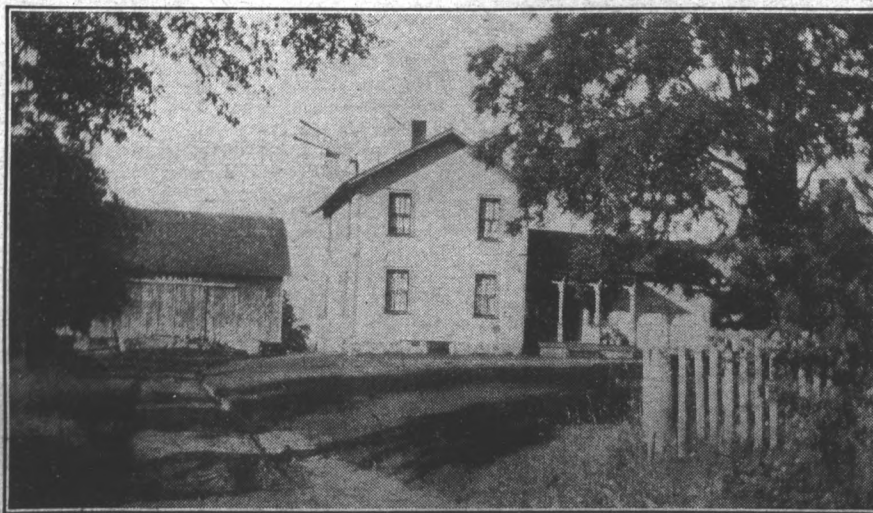
CHAPTER VII

The Deed in Trust

Her little gasoline-driven car—delicate as though a jeweler had made it—was waiting for them under the canopy beside the house, when they went out. She delayed a moment to ask Alan to let down the windows; the sky was still clear,

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 negative, just a good print.



MRS. MARY GALLERY, EATON RAPIDS, LIVES HERE.

This is the view you get of the buildings and yard of the farm of Subscriber Mary Gallery, of Eaton Rapids, as you turn off the road into the driveway.

and the sunshine had become almost warm, though the breeze was sharp and cold. As the car rolled down the drive, and he turned for a long look past her toward the lake, she watched his expression.

"It's like a great shuttle, the ice there," she commented, "a monster shuttle nearly three hundred miles long. All winter it moves back and forth across the lake, from east to west and from west to east as the winds change, blocking each shore half the time and forcing the winter boats to fight it always."

"The gulls go opposite to it, I suppose, sticking to open water."

The gulls? That depends upon the weather. "Sea-gull, sea-gull," she quoted, "sit on the sand; It's never fair weather when you're on the land."

Alan started a little. "What was that?" he asked.

(Continued in Feb. 28th issue.)

Harry Vetch Says

GETTING 'ROUND A CHICKEN SUPPER

DEAR EDITOR:—Today one of the neighbors says to me, Well are you going to the chicken pie supper which the women are having at the church tonight. Well, I answered back, Ma and all the knives and forks will be at the church, and if I don't go there will be just me and bread and milk and some preserves at home. Even if there was plenty of grub it would have to be something I could eat with a spoon or by hand.

And besides that, I wouldn't be living up to my reputation as a business farmer if I neglected a chance to get for 35c chicken pie to the amount of 75c or a \$1, and cream potatoes, current jelly, home made dill pickles, angle food cake and ice cream thrown in too boot, not counting a paper plate and being waited on by the prettiest girls in Michigan, even if their hair is barbered like an idle from King Tuts tomb.

Will, he says, when a lot of pious, hard-working women and lofty minded girls, including your own wife which is and always was too good for you, go to all that work to earn enough money to put down a new carpet where your heels were but your knees should have been, it don't come well from you to be little there efforts with so much sourcasm.

Now hold on, says I, you do me a rank in justice if you think I aint religus just because my knees aint so limber as yours. For some three years now I been living mostly by faith, carrying on in hope, and no ways to proud to make use of charity anywheres near home, whether it begins there or not. And if a chicken pie supper aint charity its at least a bargain sale with values bigger than advertised.

The first church work I ever did as a small child was catching three or four hens and dig a peck of spuds which my mother had been allowed to give to the church supper because they didn't cost farmers anything. Another favorite contribution which didn't cost anything was a 5 lb roll of butter and a gallon of cream. The town women done their part too chipping in a pound of coffee, a clean apron and the lone of a cut glass vase for some flours.

The chicken pie supper is a round about way of getting a little something from a man who aint got enough common decency to fork over his share of the cost of running the thing which is the fountain head of what we call our glorious American institutions, and which spills over and soaks into the unphurched enough to make passable neighbors of them. By the watering of his mouth such a man gives 35c to the church and a \$1 to the heathen.

Where does the \$1 for the heathen come in, he asks. And I told him the \$1 going to the heathen is the vic-tuals which gives him trouble in reaching his shoe strings after he gets home. Well, says he, huffy like, don't you believe in church suppers.

And I said, which is a fact, that as a business proposition church suppers is a short cut to bankruptcy, but as a way to make the unregenerate and back sliders rattle the church door knob there aint nothing like it ever been invented.

And now Mr. Editor I got to put on my Sunday clothes and not forget to put a paper with a little soda in the vest pocket before I take Ma and the knives and forks and the hot biscuits to the supper.—Yours truly, HARRY VETCH.

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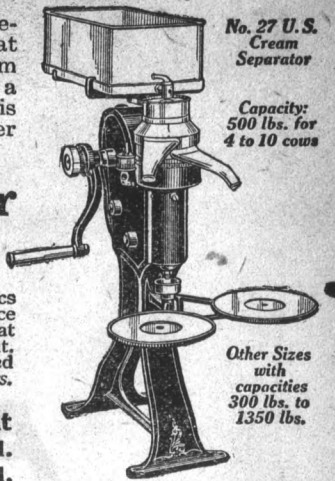
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IN announcing the Michigan Business Farmer Piano Club, we believe we are offering something of real benefit to the readers of this publication. This is the first time that individuals have been given the opportunity of dealing direct with this well-known factory—the world's greatest.

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This Club, which is limited to one hundred, entitles the member to purchase a high-grade, fully guaranteed Cable-made Piano at rockbottom factory price. The saving ranges from \$90 to \$140, depending on the model selected. Either a Baby Grand, Upright or Player-Piano may be had under the Club Plan. This saving is made possible by combining the Club's entire order, although each member is responsible only for his own instrument.

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The Club requires only a small initial deposit. The instrument selected is immediately shipped to the member's home by prepaid freight for thirty days' free trial. If satisfactory, the balance is paid in convenient monthly payments to suit the purchaser. Otherwise the Piano is returned at the expense of the Factory, with no further obligation on the part of the member. The Club guarantees your absolute satisfaction.

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The instruments offered under the Club Plan are the products of the Cable Piano Company—world's greatest manufacturers of Quality Pianos and Inner-Players. This \$8,000,000 company, now in its 45th successful year, is too well known to need comment. Cable-made instruments are in use in every part of the United States, as well as in many foreign lands. They are highly recommended by professional musicians, artists and piano teachers everywhere. Hundreds of leading schools, colleges, clubs and institutions use Cable-made Pianos exclusively.

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THE BUSINESS FARMER
"The Farm Paper of Service"
TELL YOUR FRIENDS ABOUT IT!

The Children's Hour

DEAR girls and boys:—"Shall we have a motto, colors and a pin?"

I asked in our January 17th issue. Letters from you poured into my office from that date to January 31st and all declared "Yes!" So that matter is decided and now it is up to us to choose a motto, colors and what we are to have on the pin.

We will use "The Children's Hour" as the name of the club because it is the name of our department, which is really a club and always has been although we had no pins, etc. Do you not think it best to use this as the name?

I want you to tell me what our motto shall be, the colors we are to use and suggest what we should have on our pin and I am going to put on a regular contest so that you will be repaid for thinking very carefully about the matter. The contest will be divided up into three classes, motto, colors, and suggestion on what is to be on our pin, and you may enter all three or just one or two.

To the one, girl or boy, who sends in a motto that is chosen as the one for our club I will send \$2.00 in cash; the one to place second will receive one of our beautiful, and handy, leatherette pencil cases containing pencils and pen. First and second in the other classes will receive duplicates of the awards given for the best motto, so you have a chance of winning all three first or a total of \$6 in cash. And all who enter the contest will receive one of our pins as soon as they are made.

Write only on one side of the paper, give your complete name and address on each sheet, state your age, and remember the contest closes February 28th, at noon. Any letters received after that time will not be considered.—UNCLE NED.

OUR GIRLS AND BOYS

Dear Uncle Ned:—This is about the fifth time I have written the Children's Hour, and think I may still have another chance to write. I am a farmer boy fourteen years old and am in the eighth grade at school. I weigh about 100 pounds and am four feet eight inches tall, have brown eyes and hair. For pets I have a dog and two cats and have great times with them.

Will some of the members write to me? I will answer all letters.

I will mention the color of the pins, name of the club and the motto I think would probably be satisfactory. Here goes!

The Motto—It's the song you sing and the smile you wear to see bright faces everywhere. The name—The Young Workers Club. The color of the pins—Blue and Gold. Hoping these are satisfactory, I remain, Your nephew, Stanley Rescoe, Alabaster, Michigan, Box 16.

Dear Uncle Ned:—In the letter I wrote you a short time ago I asked you what the color, motto, etc., of the "Children's Hour" was. I did not know that the "Children's Hour" did not have these. You asked if we wanted a motto, colors, pins, etc. I for one will say yes. When you have the contest I'll try and send in my choice of colors, etc. I am sorry the M. B. F. does not come every week.

Say, Uncle Ned, can we elect a president and vice president? I think that would be nice, don't you? You could pick out about six of the most active boys and girls of the Children's Hour and the boys and girls could send in their votes by letters. I think every club should have a president and vice president. Don't you? I think the Children's Hour is a club and I think that if you had a contest in THE BUSINESS FARMER and gave prizes to those who sent in the correct answers, that would be interesting. Say, why not have a correspondence scramble and that way the boys and girls would get a few correspondents.

Uncle Ned, did you ever hear any more from Albert Smith? I wrote him a letter.

I just thought of another suggestion. Could you not start a fund? By this I mean have the boys and girls who can send in a nickel, dime or whatever they can and keep that up and after a while you would have quite a little bit of money. With this money you could help some poor children or something.

I hope this letter does not go to the waste basket and I also hope the Children's Hour has a motto, name, etc. I remain, Your friend, Reginald Hodges Route 2, Wyandotte, Michigan.

Dear Uncle Ned:—I could not disregard your invitation to come again, and so here I am.

Now in regard to the plan of Muriel Frey's, it would be wonderful I'm sure to have a button and it would draw us closer together and make us one big family. It has its advantages. I for one vote "yes". The idea of voting by letter

is also good. Let's have the contest soon. I'll bet that you will have a hard time picking out the winners, Uncle Ned.

Well it seems to be the ancient custom to describe one's self, but I don't think my description would be flattering. Anyway I have two eyes, one nose and one mouth just the same as any other normal human being. There! How's that?

It is a cold night tonight, but all is warm and cozy, inside. I am busy writing a book review for the semester exams, which start next week. The subject I have chosen is "The Golden Snare", by James Oliver Curwood. I suppose that you have read it. Curwood is Michigan's own author. We are going to have a sleighride and surprise party on Wednesday night. We will have a good time I'm sure.

Tomorrow morning we will all see the eclipse of the sun, providing we get up in time. It will be a wonderful sight. This is the first and last time that we will see it, so the papers say.

We are going to take up General Science instead of Physical Geography in school. I'm hoping that it's as interesting as it sounds.

How is everyone getting along solving these crossword puzzles? I can solve some, but others are very difficult. It will certainly be a relief when they go out of style, won't it? But maybe they'll stick like bobby hair. Well, I will close, with best wishes to all, I remain, Ever your friend, Lillian Kent, Omer, Mich.

Dear Uncle Ned:—I guess Mr. Waste Basket must have gotten my other letter as I did not see it in the M. B. F. I will try and make my letter as interesting as I can. I think it is nice to have the Children's Hour. I will describe myself. I am five feet tall, weight eighty-five pounds, dark brown hair, dark eyes and dark complexion. I am eleven years old and in the sixth grade. I live on a 90 acre farm one-quarter miles from school, two miles and a half from a little town called Marion which I will describe.

Marion has four churches, school, drug store, two hardware stores, three barber shops, postoffice, two groceries, dry goods store, clothing store, two general stores, elevator, four cream stations, creamery, auto sales garage, two meat markets, harness and repair shop, saw mill, grist mill, pickle station, bakery, hotel, two doctors, five halls, state bank, jail, 13 flowing wells (Marion is noted for the best water in the state), state park, extra good race track, the Middle Branch river runs through the heart of the city, a good trout stream, large lumber yard, stock shipping association for the farmer, good ball team and a good band. Marion's population is about 800. The M goes through Marion, giving them a good paved street.

For pets I have a dog, cats, and rabbit. I can embroider and crochet a little. We drove our car the day before Christmas. The weather has been very cold but it is warmer now. The snow is quite deep in the roads. I have no brother nor sisters. I will be glad to have any boys or girls write to me. A want-to-be niece, Miss Gaile Price, R1, Marion, Michigan.

A man had twenty sick (six) sheep and one died; how many were left?—1

What is that which everybody has seen but will never see again?—Yesterday.

Which is the best day for making pancake?—Friday.

Which is the smallest bridge in the world?—The bridge of your nose.

What four letters would frighten a thief?—O I C U.

LOOKS IMPOSSIBLE

PLACE FIVE MATCHES ON A PLATE ASK FIVE PEOPLE TO EACH TAKE A MATCH YET LEAVE ONE ON THE PLATE

The Solution THE LAST PERSON TO PICK UP A MATCH TAKES PLATE AND ALL



SPRIT OF OPTIMISM RULES DURING FARMERS' WEEK

(Continued from Page 6)

Agriculture". This was presented by Huston Thompson, Chairman of the Federal Trade Commission, who gave the results of his observation in most of the countries of Europe.

Mr. Thompson stated that his job as chairman of the Federal Trade Commission was to keep the channels of trade open and to prevent any obstruction of business. He stated that Europe is fully as much concerned with organizations for cooperative buying as for cooperative marketing. One of the first obstacles which the buying co-ops. have encountered is that regular channels for purchasing have been closed to them. In other words they have not given equal privileges with other lines of business.

Attractive Exhibits

Visitors at the M. A. C. Farmers' Week always spend considerable time at the various exhibits which illustrate practically every line of the farming industry. These exhibits are always attractive and interesting and, furthermore, convey much information. It is said that a person remembers a large part of things which they see and so, on that basis, the exhibits form a very important part of Farmers' Week.

The college library is now housed in the splendid new structure, completed last year and so several rooms in the old library building were used to house three exhibits. In the basement was the potato show. A person had only to see that exhibit to realize how attractive potatoes can be when properly selected and displayed. The various classes in the potato show included exhibits from individual growers, from junior potato clubs, and from counties. In the latter class Otsego county won first place and also sweepstakes.

The main floors of the old library building were occupied by the horticultural exhibit. Although cramped for room, the exhibit was made very attractive by skillful arrangement and tasteful decoration. The champion of the State Apple Show, J. Russell Braman, was a prominent winner with his apple displays.

The upper floor was used for the grain and farm crops display. The large number of entries in this exhibit, and the quality of products, were a striking testimonial of the efficient work for better crops being done by the Michigan Crop Improvement Association.

The incubator building of the college poultry plant housed the first Michigan Egg Show. This was a striking demonstration of grading eggs and will probably be made a permanent feature of Farmers' Week.

The college armory was crowded with the dairy display. This consisted mainly of manufacturers' booths and the wares displayed attracted the attention of the dairymen, especially those engaged in the manufacture of ice cream and butter.

Exhibits of barn and house construction, farm water supply, lighting plants, engines and tractors, marl digging machinery, and other farm equipment made up the display from the Agricultural Engineering department, located in the basement of the Agricultural building.

Prize winning horses, cattle, sheep, and hogs were shown in the different college barns. Of special interest to the visitors were the animals which gained national honors through winning at the International Livestock Exposition. Nearly every visitor was intent on seeing Pervenche, the Belgian mare which has won, three times, the title of Grand Champion Belgian Mare at the International.

As a means of illustrating the other lines of work offered at the college the engineering department had a special exhibit in their building.

Women's Work is Featured

The Homemaker's Section is the portion of the Farmers' Week program which is devoted to the women and their work. A large number of ladies were in attendance at these meetings and expressed themselves as being delighted with the material presented. A Home Economics exhibit was also held in the new Home Economics building.

Big Parade Prominent Feature

The Farmers' Week parade, where in the college passes in review before its visitors, was held on Thursday noon. With ideal weather the

(Continued on Page 31)

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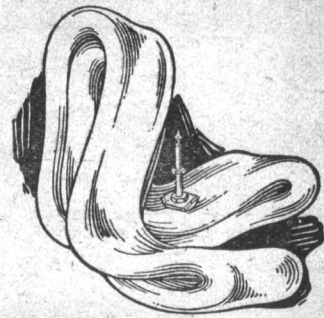
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"Two Riverside Tires and heavy duty tubes have worn out two sets of more expensive tires used on the other side of the same car. I recommend everyone to use Riversides." W. R. Hays, Nashville, Tenn.



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"I have had Riverside Tires on my car for 4 months and never had any air put in or any tire trouble and they show no wear." Fred Basenberg, Cullman, Ala.

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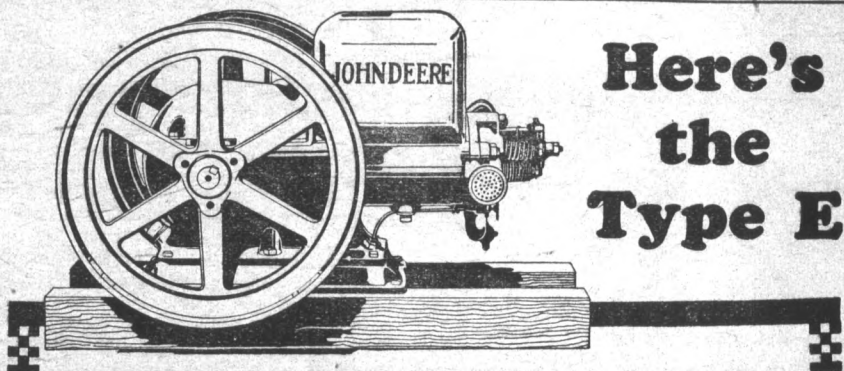
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It combines in the utmost way all the essentials in dealing with a cold—cold-checks, laxatives and tonics.

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"WHAT DOES SHE SEE IN HIM?"

By Anne Campbell

When couples get engaged, they say
 "What does she see in him?"
 Of everybody's fiancé,
 "What does she see in him?"
 He's just an ordinary lad,
 He's not too good, and not too bad—
 He's not a saint, and not a cad!
 "What does she see in him?"

When anybody falls in love,
 "What does she see in him?"
 "What can the girl be thinking of?"
 "What does she see in him?"
 He isn't handsome, isn't tall;
 He's much too big, he's much too small.
 He'd never suit me, girls at all!
 "What does she see in him?"

And other women's husbands! Gee!
 "What does she see in him?"
 He never would appeal to me.
 "What does she see in him?"
 He's much too thin; he's much too wide.
 His type's the kind I can't abide.
 How can she be so satisfied?
 "What does she see in him?"
 (Copyright, 1924.)

QUILTS — OLD AND NEW

AREN'T we all romantic enough to drift back, in fancy, with our grandmothers when they tell stories of the days that were dear to them? Days of the spinning wheel, weaving and quilting. They all belong to the same period too all have been discontinued but the quilt. It has survived—is even more popular today than for the past fifty years. The return of the four-poster and period furniture creates a demand for old patchwork quilts for there is nothing that will substitute a quilt in an old time bed room—nothing that will lend the bit of old time charm like patchwork.

We all love them, don't we, but why shouldn't we when they are so homey and attractive? I have seen many that were real works of art—some it must have taken months to complete, so tiny are the stitches and so complicated the designs. While these beautiful covers were being quilted many warm friendships were formed for the quilting bee played an important part in the social life of the pioneer women.

Wonderful patterns were created and scraps exchanged—in those days not many scraps were wasted. Bright red, green and orange were commonly used and have faded into the softer shades in the quilts that have been handed down to this generation, but the stitches remain. Once in a while we find a small quilt made for the trundle bed, that matches the larger one.

These heirlooms are of more than ordinary interest because of their personal association—romance, history, often hardship and I think sometimes, politics were woven into the stitches. How puzzling it must have been to supply names for the hundreds of patterns, while some are suggestive many are so far fetched they tax the imagination but we could not do half as well so give them all the credit due. Names of political parties have their place with those of the roses and tulips which are so popular.

On one of my jaunts last summer I visited a real treasure house. A quaint little cottage home down in Indiana with an old fashioned garden hemmed in by a picket fence. It looks the true home of a quilt lover. Nineteen quilts were brought from their resting places—some pieced years ago—some recently for my hostess still pieces and quilts during the winter, says she loves them and her work shows it. The quilting is exquisite.

If you have an old quilt hidden away bring it out and use it for your bedroom is not complete without one. If you do not have one why not reproduce one? We have so many attractive old patterns that are easy to make and the fast color gingham which can be procured are lovely to work with so the work is quite fascinating. The quilt has come to stay—it matters not what style bed you have you must have at least one—old or reproduced.

The Dutch Rose or Unknown Star as it is sometimes called, is a good old pattern and one of the favorites with the early quilters but this is not surprising for it is a striking design made in one color with white or two colors with white. Alternate the eight diamonds that form the center dark and light or plain and figured material—the eight with the sharp points in the next row, dark and the rest light, the squares white. Joined



The Farm Home

A Department for the Women

Edited by MRS. ANNIE TAYLOR

DEAR FOLKS: Some time ago, I read an article on the daily habits of the average American child at the age of eleven years and I know certain facts in this article, based on the findings of a survey of 86 cities of 40,000 to 70,000 people, will interest you. For instance the child goes to bed at four minutes of nine. He gets up at five minutes of seven, having had ten hours and nine minutes of sleep. He eats a substantial breakfast of cereal, bread and butter and an egg. During the day he drinks 1.4 glasses of milk. In seven days he takes one bath. He brushes his teeth five days out of seven and goes to the dentist once every two years. If you have a youngster of that age compare the above statements with the facts in your case.

*Your Friend,
 Mrs. Annie Taylor*

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

with white blocks marked for feather wreath quilting. The border of plain white between will make a pleasing finish.

Nearly one hundred years ago in the state of Ohio a wonderfully pretty quilt was made with the Pilot's wheel and an old floral design but the Pilot's wheel alone makes a good simple pattern. The circle in soft green, the fans or leaves in Pink and yellow or pink and green.

For those who prefer the applique designs there is none more effective than the Wild Rose. The red and yellow roses or roses all one color with the green leaves and stems—the centers of the roses done in French knots instead of prints, will give a new idea. Join the blocks solid to form a vine continuously over the bed. Two by two and one half yards is large enough for the ordinary quilt.

In cutting blocks for pieced or applique quilts it is best to cut a card board pattern and lay on the material to draw around then draw the required number of pieces before starting to cut. This will insure more perfect patches also warn if there is a shortage of material. I think perhaps we have all had some experience in trying to match colors.

The exact amount cannot be given for there are different ways to join and a variety of borders. The best way to determine the amount required for a quilt is to take the number of square inches required for each color in one block and multiply it by the number of blocks, allowing for the border.—Charlie Sexton.

(Editor's Note:—I can supply you with patterns of the quilt blocks shown with article for 20c each. Address your orders: Mrs. Annie Taylor, THE BUSINESS FARMER, Mt. Clemens, Michigan.)

CAN MEATS NOW FOR SUMMER

MANY a farm housewife has longed for a supply of fresh meat to give variety to the menu in the summer. Fresh meat is expensive to buy in small quantities the year round and many farm homes are situated considerable distance from a butcher shop.

The discovery of the canning process for meats has solved this problem for the farmer's wife. Now, by killing in the winter when the possibility of spoilage is small, a supply can be canned for summer use that will be ready to serve at a moment's notice. Too many homemakers think that the best way to can meat is to put it into the cans raw and process it the required length of time. The only product that can possibly result from this method is "boiled meat". A better way, according to home economics extension specialists at South Dakota State College, is to consider first what you want to serve when the cans are opened, for the product taken from the cans will be no better than what you put into

them. Prepare the meat as you want to serve it for the table. Cook it about two-thirds done. Add the gravy when you open the can for serving later on. There is so much fresh meat at the time of butchering, it is a good plan to can the choicest and consume immediately that which is harder to can.

The hot water bath is not the most satisfactory method for canning meats. The steam pressure cooker gives better results and there is less chance of spoilage. Here are the steps in the hot water bath method of canning meats:

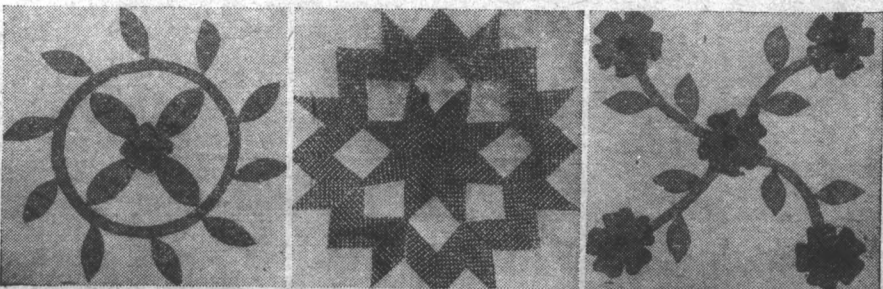
Place a wash boiler with tight fitting cover on the stove, with sufficient water to cover the jars one or two inches. Have the water boiling and provide an extra supply of hot water to use for filling up the boiler as the water evaporates. Use either a wooden rack, a metal rack or individual jar holders for keeping the jars off the bottom of the boiler. Lower the jars into the boiler as they are filled, topped and ready to process. Put on the boiler cover so that it fits as steam tight as possible and keep water boiling continuously during the processing period. Begin to count time when water starts to boil. Seal the jars immediately, invert to cool, if possible, and store in a cool place.

The best results are obtained in canning meats with the steam pressure cooker because a higher temperature can be secured than with the water bath. The ten quart capacity cooker will hold three one quart jars or two one quart and one two quart jars. Larger cookers may be purchased. The twelve quart is probably the right size for a family of five.

The procedure in canning meats by the steam pressure cooker method is as follows: Place the rack in the bottom of the cooker and add water to the top of the rack but do not cover. Place the filled jars of meat as they are ready for processing on the rack in the cooker. When the cooker is filled, screw the cover into position, fastening the opposite clamps until the cover is tight. Close the safety valve and see that the exhaust is open to allow the escape of the cold air until the steam begins to appear. Close exhaust and begin to count time when the hand on the dial indicates the desired temperature and pressure.

Hold a uniform pressure until the end of the processing period. When using an oil stove it is necessary to turn the blaze down. When using a cook stove, the steam pressure cooker can be moved to the back or one side and still maintain the required pressure. The main point is to keep the pressure regular. Changes in pressure from 10 pounds to 15 pounds and back will effect the pressure on the inside of the jars so that the juice may be drawn out.

Remove the steam pressure cook-



Three of the quilt block designs mentioned. Left, Pilot's Wheel, center, Dutch Rose or Unknown Star; right, Wild Rose.

er from the fire when the processing period is finished. Allow the cooker to stand in a cool place unopened until the hand on the dial indicates zero. It may be necessary to wait three or four minutes after the cooker registers zero before opening the cooker. Don't wait too long. Open the exhaust gradually until all of the steam escapes and seal jars immediately.

Personal Column

Will You Help?—Dear Readers:—Our editor has asked for help to make our page better during 1925. How many are responding and helping her? She has tried in every way to get you interested.

When she offers you slipper, quilt and other patterns, do you enclose a stamp for postage? It may seem a small matter to you, but if she mails out one hundred patterns would cost her \$2.00 besides envelopes and paper. We all have ideas that would be helpful to others, why not send them in? Our rural carriers are very good and come to us every day, why not try and help them too. When mailing letters or packages and you have no stamps on hand, put your pennies in an old envelope, then he can easily get them, instead of fumbling in the mail box after them. Also get money order blanks and have them all written up for him, as his fingers get cold and numb doing such work. He will appreciate it.—Farmerette.

A Bachelor's Idea of Buckwheat Pancakes.—I saw in a recent issue of THE BUSINESS FARMER a request for buckwheat cakes and it was answered by a party telling how to make them with baking powder. Now my idea there is the only way to make good ones you must use yeast.

Dissolve yeast cake in warm water to each cup of buckwheat flour use ½ cup of white flour add salt and one spoon sugar. Let rise over night. Next morning add ½ cup skimmed milk to which has been added ½ teaspoon soda. I use all skimmed milk. Leave enough batter to set for the next time. Keep batter in cool place but not too cold. Don't throw out the old batter every week or so as some do and start new, the older the batter gets the better it is. I got this recipe out of THE BUSINESS FARMER two years ago and believe me I have used it.—J. W. M., Turner, Mich.

A Household Hint.—Cut the inner tubes of automobile tires lengthwise and use same for elastics or for elastic in the top of bloomers. Sew the rubber strips together as you would any kind of elastic, using needle and thread.—J. D.

A Household Hint.—In place of a piece of pork for a griddle greaser you will find a chunk of tallow satisfactory as there is less smoke from it.—Mrs. Alva P. Hakes.

—if you are well bred!

Introduction Taboo.—1. Asking a lady whether she has met a gentleman when introducing him.

2. Saying: "Mr. Grey, I want you to know Mrs. Coutant"; "Mr. Grey, let me make you acquainted with Mr. Morton"; "Mr. Grey meet Mrs. Coutant"; "Mr. Morton, shake hands with Mr. Grey."

3. Asking the person to whom you have been introduced what his or her name (which you have not caught) may be. A third person should be asked.

4. Employing the widely used but vulgar phrases of acknowledgment: "Delighted," "Charmed," "Honored, I'm sure," "Pleased to meet (or the still more dreadful, "to know") you."

5. Interrupting an interesting conversation between two persons to introduce a third.

6. Reminding a person to whom you have been introduced and who has forgotten you, that you have already met.

7. Using the expression "My friend" in introducing one person to another. It implies preference, which is ill-bred.

8. The carelessly and indistinctly uttered introduction.

9. Introducing a departing visitor to one who is arriving.

10. Asking for letters of introduction: they must always be offered.

The Runner's Bible

(Copyright by Houghton Mifflin Co.)

How beautiful upon the mountain are the feet of him that bringeth good tidings, that publisheth peace, that bringeth good tidings of good, that publisheth salvation, that saith unto Zion, Thy God reigneth.—Isa. 52:7.

Be sure that you carry happiness and glad tidings about with you. If in a solemn and serious manner you say to a man, "Let me prepare you to die that you may live after death," you will hardly be able to get his attention. But if, with enthusiasm you tell him that you have good news for him, that it is possible for him to have perfect health, to be prosperous and happy here upon this earth, he will eagerly listen for every word. Man longs for help, he wants it now—for to-day.

RECIPES

Victory Cake.—1 cup butter, 2 cups sugar, 4 eggs, 1 cup milk, 3 cups flour, 2 heaping teaspoonfuls baking powder. Flavor with vanilla. Bake in three large layers.

Cream Filling.—1 cup sugar, 1/3 cup flour, 1/2 teaspoon salt, 2 eggs. Beat all together then pour on gradually 2 cups scalded milk. Cook until thickened, stirring constantly. Flavor. When cool put between layers.—H. W., Reese Mich.

Johnny Cake.—1 heaping tablespoon butter or lard, 1/2 cup sugar, 3 egg yolks, 1 1/4 cups sweet milk, 3/4 cup corn meal, 2 cups pastry flour, 5 teaspoonfuls baking powder, 1 teaspoonful salt, 3 egg whites, beaten dry. Cream the butter and sugar, beat in the yolks, add the milk, cornmeal, flour and baking powder sifted. Then the whites of eggs. Bake in well-greased pan about twenty-five minutes. Sometimes I use buttermilk or sour milk instead of sweet milk. This can be done by adding one-half teaspoonful soda into the milk and omit the teaspoon of baking powder.—H. W., Reese, Michigan.

Layer Cake.—1 cup sugar, 2 eggs beaten in a cup, add 10 teaspoonfuls melted butter, finish filling cup with sweet milk, 1 1/4 cups flour, 2 teaspoonfuls baking powder, seasoning to suit taste. Bake in layers. This is always good.—Mrs. Thomas Eddy.

Salmon Salad.—Here is another experiment I made which was a success. I keep a few cans of salmon in my emergency cupboard and here is a quick simple way to transform a salmon into a salad.

Put three or four of yesterday's eggs to boil as fresh ones do not peel easily. Prepare a dressing this way. In a quart basin mix thoroughly 2 teaspoonfuls sugar, 1 level teaspoon ground mustard and 2 rounding teaspoons corn starch. Into this stir 1 cup sweet cream of 1 cup sweet milk and a lump of butter. Boil, stirring well, until the right consistency. Add 1 teaspoon salt and 1 tablespoon good vinegar. Open salmon, drain, remove bones, break—not flake—into small

portions, empty into a salad bowl, garnish with lettuce leaves—when possible. Slice eggs over salmon and pour on the dressing. By flaking the salmon and mincing the eggs this makes a very palatable spread for sandwiches.—B. O. R., Breckenridge, Michigan.

HOMESPUN YARN

Canned fruits—pineapple, pears, or peaches—are excellent in salads.

When meat is selected for real food and vitamin value, the kidney, liver and sweetbread end of the counter will be as popular as the roast sections.

"The improved acre must yield not only corn but civilization, not only potatoes but culture, not only wheat but effective manhood."—Kenyon L. Butterfield.

Enjoy this fall's apples next spring; bulletin E 88 of the state college of agriculture tells how to preserve them. A self-addressed post-card brings it.

Every home should have a kitchen high stool; a satisfactory one may be bought for two or three dollars or made from a child's high chair by removing the arms and back.

Egg plant has become more popular with many housewives since cooks have decided that it isn't necessary to bother with soaking it in salt water and pressing the juice before it is cooked.

Aunt Ada's Axioms: Electricity in the home will shorten any woman's day and lengthen her days.

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 bonifide 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. 123.—Lovely percale, gingham, sateen and plush quilt pieces to exchange for anything useful.—Mrs. Geo. Morgan, Vicksburg, Mich., R3.

AIDS TO GOOD DRESSING

BE SURE AND SEND IN YOUR SIZE

4937. A Practical Popular Underwear Style.—Batiste, cambric, satin, crepe, radium silk or crepe de chine may be used for this model. It may also be made of dress materials, such as faille, satin, velvet or flannel, and worn under a tunic. The Pattern is cut in 4 Sizes: Small, 34-36; Medium, 38-40; Large, 42-44; Extra Large, 46-48 inches bust measure. A Medium size requires 2 1/2 yards of 86 inch material. The width at the foot is 1 1/2 yard.

4983. A Stylish Design for "Stout" Figures.—Faille, broadcloth or satin as well as crepe and crepe satin would be suitable for this model. The Pattern is cut in 8 Sizes: 36 1/2, 38 1/2, 40 1/2, 42 1/2, 44 1/2, 46 1/2, 48 1/2, and 50 1/2 inches for corresponding bust measure, 40, 42, 44, 46, 48, 50, 52 and 54 inches, waist measure, 33, 35, 37, 39, 41, 43, 45 and 47 inches. A 42 inch size bust measure requires 4 1/2 yards of 40 inch material, with 1/2 yard of contrasting material for facings and collar, cut crosswise. The width of the dress at the foot is 1 1/2 yard.

4950. A Pleasing Skirt Model.—Plaid suiting, twill, or chambray would be attractive for this style. The Pattern is cut in 7 Sizes: 25, 27, 29, 31, 33, 35 and 37 inches waist measure, with corresponding hip measure, 35, 37, 39, 41, 43, 45 and 47 inches. To make the skirt for a 29 inch size requires 3 1/2 yards of 40 inch material. The width at the foot is 2 1/2 yards.

4974. A Pretty Blouse.—Faille, silk or satin, with embroidery or contrasting material would be pleasing for this model. It is also good for crepe, crepe de chine or linen. The Pattern is cut in 6 Sizes: 34, 36, 38, 40, 42 and 44 inches bust measure. A 38 inch size requires 3 1/2 yards of 32 inch plain material, and 1/2 yard of contrasting material, if made as illustrated in the large view. Without the long sleeve portions 3 1/2 yards of plain material is required.

4993. A Dainty Apron Frock.—Cretone and unbleached muslin are combined in this pretty model. One could use sateen or linen in place of the muslin. It is also attractive in percale with piping in a contrasting color. The Pattern is cut in 4 Sizes: Small, 34-36; Medium, 38-40; Large, 42-44; Extra Large, 46-48 inches bust measure. A Medium size requires 2 1/2 yards of figured material and 1 1/2 yard of plain material 36 inches wide.

4979. "One Piece Rompers"—A very simple practical style is here portrayed. It may be made with or without sleeves. Figured percale, gingham or linen could be used for this model. The Pattern is cut in 4 Sizes: 2, 4, 6 and 8 years. A 4 year size, if made with sleeves, requires 2 yards of 27 inch material. Without sleeves it requires 1 1/2 yard less. Pocket and cuffs of contrasting material require 1/4 yard.

4978. A Comfortable Play Suit.—Jersey weaves, flannel or serge as well as linen or chambray may be used for this style. The Pattern is cut in 3 Sizes: 2, 4 and 6 years. A 4 year size requires 2 1/2 yards of 27 inch material. If made as illustrated it will require 2 yards of 27 inch material and 1/2 yard of contrasting material for vestee, collar and cuffs.

5000. A New Dress for Mother's Girl.—This pretty "frock" may serve as a party or dance frock if developed with short sleeves, or with long sleeves it will make a good school dress. The Pattern is cut in 4 Sizes: 6, 8, 10 and 12 years. A 10 year size requires 2 1/2 yards of 32 inch material if made with long sleeves. If made as shown in the large view 2 1/4 yards will be required.

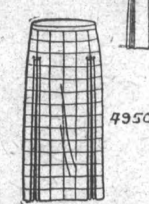
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What is a Teaspoonful?

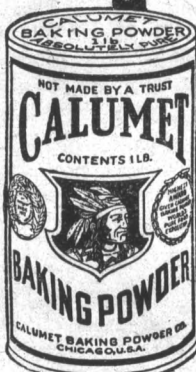


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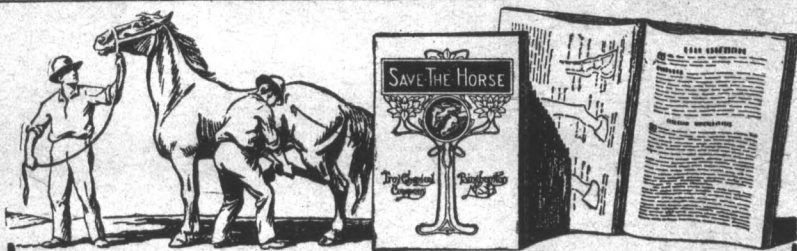
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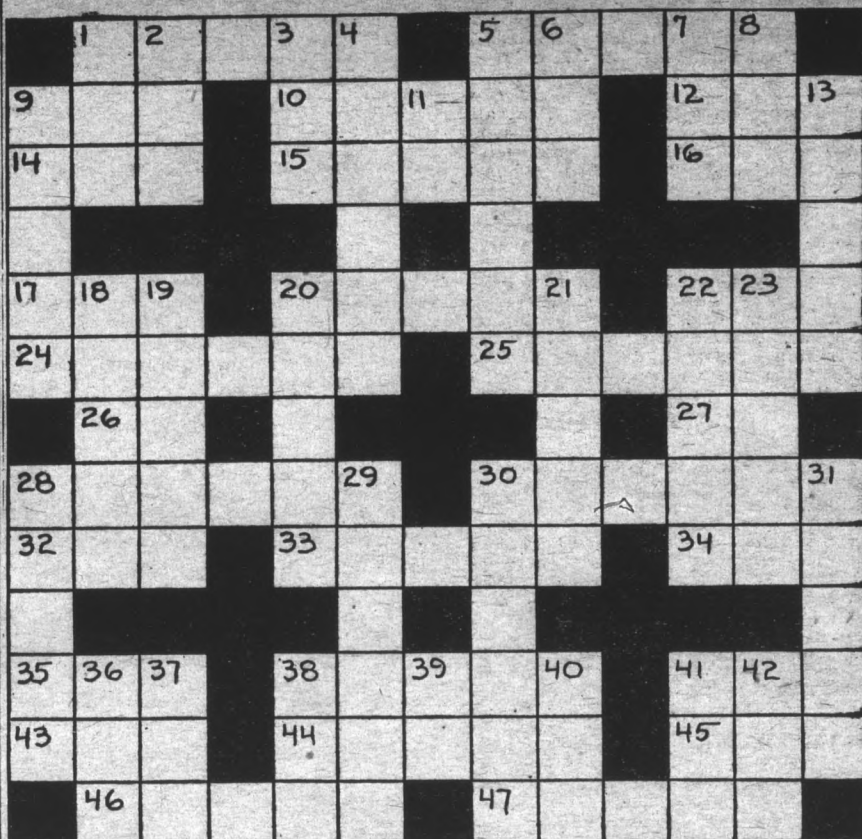
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CROSS-WORD PUZZLE NO. 8



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**
- Place where farmers keep the horse
 - Tool used by farmers to tap trees
 - What farmers say to oxen to guide them
 - Foreign noblemen
 - Male of sheep
 - Went fast
 - Sprightly
 - To grow old
 - Perceive
 - Sweetheart
 - Expert aeroplane operator in the war
 - A reddish fish
 - Unit for money
 - Royal Arcanum
 - Initials for name of a famous President
 - One who slides
 - To blot out; erase
 - United States Navy
 - Appeal; hint
 - Bright color
 - A large tub or vessel
 - Bruises
 - Female sheep
 - Period
 - Squeeze hard
 - What makes a flivver go
 - Something which affords great pleasure
 - Used to move logs on the fireplace

- DOWN**
- Ocean
 - Half a score
 - Meadow
 - Marsh of fen
 - Associated together
 - Employ
 - Period of time
 - An old cloth
 - Uncut hay
 - Rhode Island
 - Instrument to measure gas, etc.
 - Foreign noblemen
 - Pure liquid part of oil or fat
 - The one who bets wrong
 - Tramp; traveller
 - Change
 - Bill of fare
 - Pleasant in manner
 - Sharp reply
 - Hate
 - Rims
 - Knack
 - Black sticky fluid
 - Mineral spring
 - Second note of the scale
 - Steamship Oregon
 - To urge on
 - Part of the verb 'to be'

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

THE ELEMENTS MOST NEEDED IN MICHIGAN SOIL

(Continued from Page 11)

Fortunately God has given us a very large amount of this element in every acre of our soil. It runs as high as ten to thirty times as much as the other elements but in most cases it is locked up in such a way that it is not always available for the use of plants.

In the analysis of Michigan soil we see the different types of soil running as follows:

1 acre of soil	Nitro- gen	Phos- phorus	Pot- ash
Prairie	4,000	1,000	30,000
Clay Loam	3,000	1,500	35,000
Sand	1,500	1,000	25,000
Blow Sand	1,000	1,000	2,500

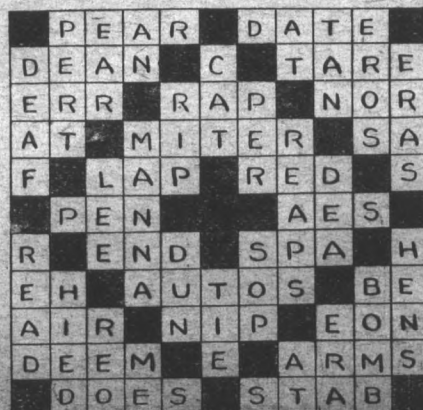
This table gives the total amount of the elements we are talking about in an acre; how much of these are available to plants depends on the amount of humus, water and the cultivation of these soils. We see that the prairie and clay soils are the best producers in nearly all cases because they have the most plant food in them. If you want to grow better crops you must add to your food supply in your soil just as surely as you must deposit funds in your bank if you wish to draw on the account from time to time. The question now arises can one afford to take the steps necessary to build up his soil under the present economic conditions and the answer is yes for people are doing it daily and making good too, but one must know something of what must be done.

There is not need of one to make his own experiments as that already has been done for him but he must be willing to try and keep a close check on what he is doing. He must learn that to succeed he must in-

crease the humus content of his soil in every possible way for one may have a very rich soil chemically but on account of the lack of humus and soil moisture he cannot make these chemicals fit for plant use. One must bear in mind that food for a plant must be soluble before a plant can use it.

In this article we have mentioned three of the most important elements in plant growth in which the farmer must interest himself. Carbon, Magnesium, Calcium, Iron, Sulphur and the rest we do not need to worry about on Michigan soils. In summing up this article let us remember that nitrogen, phosphorus and potash are the elements we must increase and keep in balance if we are to better the conditions of our farms. Also the consuming public must be educated to the point that for every bushel of wheat or anything else we sell we are taking off and out of our farm, potash, phosphorus, and nitrogen and it must be replaced if our farm is to be as good as before.

ANSWER TO CROSS-WORD PUZZLE NO. 7



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A FARM BOY IN THE LAND OF THE FLYING DUTCHMEN

(Continued from Page 4)

We arrive; there is no one to meet us; we do not know the names of the hotel; we cannot phone our reception committee for we do not know their names; we are seven stranded Americans in an Amsterdam big city. There were porters in all the directions mentioned in the Charge of the Light Brigade and each one was explaining it all to us—but all in Dutch.

"Well, boys, it looks like we're in Dutch for sure", said Colonel Cobb, the leader of our party. We hunted up the station master who knew the beginnings of a few dozen words of English.

"Americain, yea! Today. Yesterday. Whole day. Tell me. Americano go hotel. Hotel Europe. Holland man he say"—and several yards more with every now and then a word that we could identify. We concluded that our reception committee had been meeting previous station master to direct us to the Hotel Europe. He pointed to the street cars lined up in the street and held up three fingers. Ah, car number three, no doubt. We started with our baggage. A dozen porters dashed after us protesting mightily. We waded through them and the street car conductor delivered us a wonderful oration in Dutch, refused to let us board the car and pointed vigorously at our baggage the while. We couldn't understand him but the doctor said that he was telling us to "get to Amsterdam out of here", or words to that effect. Again the porters surged upon us, and then a policeman came to the rescue.

The policeman explained in fair English that that street car would take us right past the Hotel Europe—pronounced with a fine large accent on the last syllable—but, of course, we could not ride on a street car and carry our own suitcases! We were always learning something which everyone else knew and supposed that we did too. Carrying a suitcase on a street car in Holland is one of the many things that is not done—and why shouldn't we know it?

We finally learned that the hotel was only a five minute walk from the station anyway and so we picked out a small detachment of porters with their pushcarts from the fleet that had us bottled up, mowed away our baggage on the carts and told the porters to lead the way to the hotel.

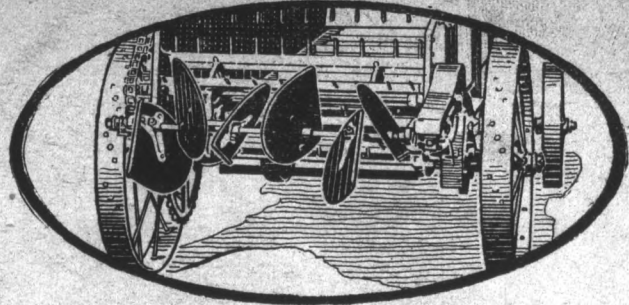
A Push Cart Caravan

They certainly did lead out! Whether these Flying Dutchmen were simply going to show us Americans, who have such a reputation for always being in such a hurry, that they were just as fast as we were or whether they were trying to steal our baggage and run away with it has never been entirely settled in the minds of our party, to this day. We often discussed it later. I know that I earned another stripe on the sleeve of my varsity track sweater in trying to keep up with that push cart caravan. Down the middle of the street we went clattering along over those round, uneven cobble stones shouting encouragements to each other to keep in sight of the baggage at any cost.

We made it! At the hotel door I was detailed to buy the baggage back from the porters. I had to pay them for each piece and then tip them for each piece besides. The desk clerk could speak good English; our rooms had been reserved and he would phone to our host that we had arrived. A bite to eat, a shave, and a clean collar are all that any man needs to re-establish in his own mind any feeling of personal satisfaction with himself that may have been temporarily dissipated. We indulged in those rites, met our hosts, mapped out the program for the next day and called it a perfect day.

The dog drawn milk carts, the man power push carts, and the swarms of bicycles, and pedestrians leave little room for the automobiles—and the boats—that ply up and down the narrow streets of Amsterdam, and other cities in Holland as well. I mention the boats because a system of canals is woven around through the city and these are full of boats, decayed vegetables, and mosquitoes. A dead cat floating about prominently in one canal sharpened my imagination as to what

(Continued on Page 26)



The Blades That Cut Farming Costs—and Build Profits!

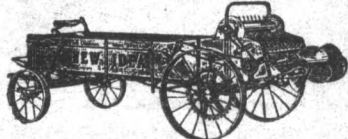
HERE is the "business end" of the world's best spreader—the distributor blades that have increased harvests on thousands of American farms during the past twenty-five years—by making fullest possible use of Nature's greatest soil food.

THE NEW IDEA SPREADER

The shape of the blades—and their relative position to each other—is the secret of New Idea efficiency. This feature is covered by patents and can be had only on the New Idea Spreader.

In the New Idea Model 8 you will find every single feature that you could wish for in a spreader. Sturdy construction—simple efficient mechanism—low bed—auto steer front axle—these and many other genuine advantages make the New Idea the best spreader you can possibly buy.

See this spreader at your dealer's or write us for literature



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"Spreader Specialists for 25 Years"

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New in design—more efficient in its work—the New Idea Transplanter is the ideal machine for market gardeners and growers. Handles all crops. Write or mail coupon.



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You wouldn't stand for this One Minute

If some one scraped the butter left over from your table into the garbage can after each meal you certainly would put a stop to it immediately.

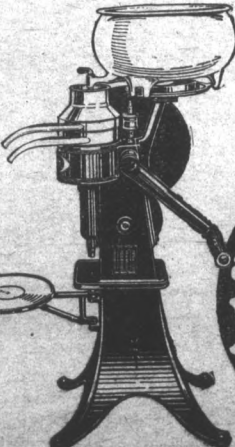
Left-over butter must be saved for another meal, but how about the "left-over" butter-fat which your present separator leaves in the skim-milk? It isn't at all unusual for a new De Laval to increase the yield of butter-fat from the milk of just a few cows by a quarter to a pound or more a day. Think what this would mean to you in the course of a year.

Trade Allowance

Old centrifugal cream separators of any age or make accepted as partial payment on new De Laval. Sold on easy terms from

\$660 to \$1430 DOWN
Balance in 15 Easy Monthly Payments

FREE Catalogs



See and Try an Improved De Laval

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New York, 105 E. 47th St. Chicago, 22 E. Madison St.
San Francisco, 51 Beale St. Seattle, 101 1st St.
Send catalog checked—Separator ☐ Milk ☐
Name _____ Town _____ State _____ No. Cows _____ R. D. _____



HELP her through the dangerous strain at Calving—

Calving—the strain of reproduction—is a severe test for the vital organs of even the most vigorous dairy cow. In the shock and stress of this critical period lurk many hazards to health and milk-giving.

The genital and digestive organs, carrying this great added burden, need help—invigorating medicinal assistance. Otherwise there is a breakdown. Diseases and disorders creep in and the productive capacity of the cow is threatened.

To carry a cow safely through calving, nothing could be more satisfying in its results than the invigorating help of *Kow-Kare*. A tablespoonful in the feed twice a day for two weeks before, and two or three weeks after, works wonders.

Kow-Kare contains the medicinal properties to build up the genital and digestive organs to top notch vigor. A slight investment to assist nature

will repay you with a healthy, productive milker and a vigorous calf.

More Milk Assured

A tablespoonful of *Kow-Kare* twice a day, one week in each month will bring many added dollars in your monthly milk check. The strain of winter feeding needs this invigorating medicinal offset right now. Try this plan on all of your cows and note results.

Banish Disease

Such cow ailments as Barrenness, Abortion, Retained Afterbirth, Scours, Garget, Milk Fever, Lost Appetite, etc., result from run down digestive and genital organs.

Kow-Kare successfully treats these disorders because it builds up the key organs and makes them function as nature intended. At the first sign of cow ailments, let *Kow-Kare* be your "home cow doctor."

BAG BALM

insures a healthy udder

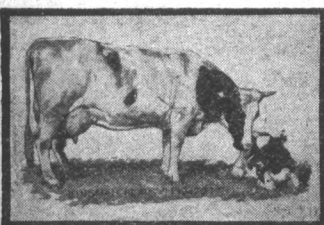
Keep on hand a can of Bag Balm. A great healing ointment for Caked Bag, cuts, scratches, chaps and hardened tissues. Big 10 oz. pkg. 60c

Send for this Free Book

We publish a free book on the home treatment of cow ailments. Write us today for your copy of "The Home Cow Doctor." Its timely aid may save you hundreds of dollars.

Feed dealers, general stores and druggists sell *Kow-Kare* in \$1.25 and 65c sizes. Send direct to us if you fail to find it locally.

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ARE YOUR COWS Losing Their Calves

You Can Stop Them Yourself
AT SMALL COST

Ask for FREE copy of "The Cattle Specialist," our cattle paper. Answers all questions asked during the past thirty years about abortion in cows. Also let us tell you how to get the "Practical Home Veterinarian," a Live Stock Doctor Book, without cost. Veterinary advice FREE. Write tonight. A postal will do.

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

DAIRY statistics show there is approximately 23,000,000 milk cows on the 6,500,000 farms of this country. They also show the average yearly production of butterfat to be less than 160 pounds per cow. The average annual yield of milk per cow in the Netherlands is in round numbers 8,000 pounds. In



LEO C. REYNOLDS
Shiawassee County Farmer.

the United States the average milk cow produces about 4,000 pounds or about one-half of the yearly production of her sister country.

Improving the milk yielding power of the average dairy cow to a marked extent means increase production temporarily, but ultimately assurance of larger and more profitable production.

It is the opinion of some dairy authorities that one-fifth of the dairy cows of this country could be marketed and within a period of one half score years under intelligent management the balance bred and fed would produce sufficient dairy products to meet all the immediate needs of our rapidly increasing population.

Improving the productive qualities of the average dairy cow necessitates intelligent selection, breeding and feeding of dairy animals. Success is unattainable without coherence to the basic principles of profitable production. So closely allied is good breeding and proper feeding of milk cows that either one without the other will not insure success.

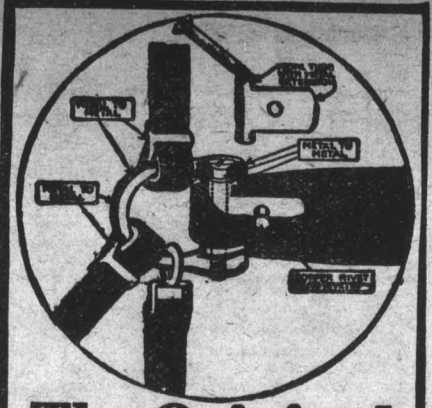
My experience in the dairy business covering more than twenty-five years conclusively demonstrates to me that good foundation stock is the first essential to start improvement upon. Improving the milk yielding power of the average dairy cow is at best a slow skillful intelligent undertaking involving thorough study of the laws of breeding, selection and feeding of dairy cows.

It must be recognized that the larger majority of dairymen desiring to improve the milk producing qualities of their cows must start with the cows they now own. With this fact established I believe in a rigid process. Inferior bred and low productive cows must be replaced with better individuals. There is nothing to be gained and a whole lot lost in attempting to improve cows of inferior breeding and type.

In the process of improving my herd I select the cows that meet as near as possible the requirements of the typical dairy type. I select large cows giving evidence of strong constitution. I want cows that are greedy and that are good feeders. Cows of good appetite that take their ration regularly. I select the cows that possess the capacity to consume large quantities of feed as large production can not be attained without large consumption.

Proper feeding of dairy cows to develop their capacity to yield increase milk production is a very essential factor and I consider it second only to good breeding and selection. I want every cow I own to have a fair chance. Good breeding can only return its maximum results when backed up by proper feeding. The dairyman must compound his own ration from feeds grown upon the farm and from those that can be purchased at reasonable cost. I want the concentrates to form at least 60 per cent of the entire ration. Corn silage and clover and alfalfa hay I find is the best roughage to form the bulk of the ration.

I know of no other method of determining the productive capacity of milk cows than to conduct individual tests. A great many dairymen hesitate on starting testing their cows fearing it is a hard and tedious job. This I know from experience is not true. Regular weighing and tabulating the regular daily milk production of the herd does not involve but a moment's time. The testing of the milk for fat percentage is a short job. It has been my experience that



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\$7.50 After 30 Days FREE TRIAL

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Distributors of Melotte Cream Separators and Edison Phonographs.

only \$5.35 feeds two calves for six weeks!



This is the cost of a 100 pound bag.

Compare this cost with feeding cow's milk for the same period—figure what you save with No-Milk Calf Food. Produces fine, healthy calves without using any whole milk. Begin using when calves are three days old, and simply mix it with water. It is not a calf meal—Has been used successfully since 1885.

At your dealer's today you can get No-Milk Calf Food. Try one bag. You'll be surprised with it. Look for the Red and Green bags. Put up in 25 lb., 50 lb. and 100 lb. bags. Call on your dealer today and get a bag!

National Food Co.

Fond du Lac, Wisconsin

Rheumatism

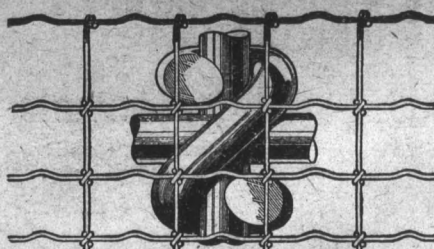
A Remarkable Home Treatment
Given by One Who Had It

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-sought 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.

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Mr. Jackson is responsible. Above statement true.



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identifies this copper-bearing, longer lasting

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So that you may always know this good fence, we've marked it with a Red Strand. If the fence you buy hasn't the Red Strand then you are not getting "Galvannealed" Square Deal. Our patented "Galvannealed" process welds an extra heavy coating of zinc into and around the copper-bearing steel wire. The ordinary, galvanized method used by others puts on only 1/4 or 1/2 as much zinc. Because "Galvannealed" Square Deal has 2 to 3 times more zinc than the galvanized kind, it lasts 2 to 3 times longer.

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Look for this (Everwear) on the Harness

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from a Bone Spavin, Ring Bone, Splint, Curb, Side Bone, or similar troubles and gets horse going sound. It acts mildly but quickly and good results are lasting. Does not blister or remove the hair and horse can be worked. Page 17 in pamphlet with each bottle tells how. \$2.50 a bottle delivered. Horse Book 9 R free.

ABSORBINE, JR., the antiseptic liniment for mankind, reduces Painful Swellings, Enlarged Glands, Wens, Bruises, Varicose Veins; heals Sores. Allays Pain. Will tell you more if you write. \$1.25 a bottle at dealers or delivered. Liberal trial bottle for 10c stamps. W. F. YOUNG, Inc., 369 Lyman St., Springfield, Mass.

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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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testing a dairy herd to determine their individual performance is an interesting undertaking and the only accurate method of improving the average dairy cow.—Leo C. Reynolds, Shiawase County Farmer.

VETERINARY DEPARTMENT

MOON BLINDNESS AND GREASE HEEL

"I would like a little information concerning my horse's eyes. His eyes seem to run for a day or two and then slowly turn a yellowish color, which covers the whole eye. The first attack he had was in one eye last spring. We got some white powder and salve from our veterinarian which seemed to help for a while, but in the summer he had it again and I believe he is blind in that eye. I do not know what the doctor called it, but he could not do anything for him. Now he is getting it in the other eye. He is only six years old. He is also bothered with the grease heel. Our veterinarian has doctored him for both eye and leg trouble."—W. J. Bruce Crossing, Michigan.

I THINK your horse is suffering from periodic ophthalmia, a disease that is commonly called moon blindness, the treatment of which is very unsatisfactory. Some favorable reports have been made recently from the intravenous administration of neosalvarsan. This treatment should be given only by a qualified veterinarian as the intravenous administration of drugs of this nature is not without danger and should be administered only by one who has had experience.

Chronic grease does not yield readily to treatment. The application of white rock poltice kept on two or three days followed by the application three times daily of a mixture of zinc sulphate and lead acetate of each two drams to one pint of soft water sometimes works well.—John P. Hutton, Assoc. Prof. of Surgery and Medicine, Michigan Agricultural College.

KNOW YOUR BULLS

ONE of the results of the Cow Testing Association work over a long period of time is the point of learning the value of different bulls in siring cows of high producing ability. A vast difference is seen between scrub bulls and purebred bulls in this respect. A difference is also seen between purebred bulls. This point is shown forcibly in one Cow Testing Association.

One herd of seven cows was tested for a year. The owner had been keeping a pure bred bull and all his cows were sired by such an animal. It was impossible for him to pay a great deal for a herd sire, however, with the small herd. With good feed and care this herd averaged 6632 pounds of milk and 245.6 pounds of fat.

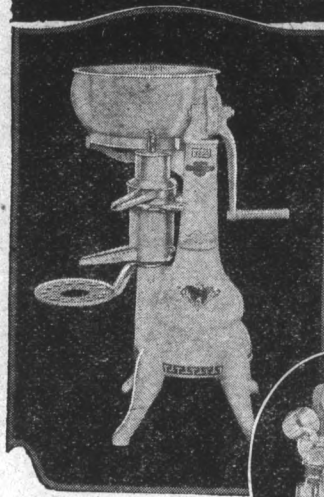
In another neighborhood a group of association members had cooperated in owning a pure bred bull. In this way they were able to secure a well-bred, valuable animal. Daughters of one of these bulls made up largely the herds during the association year. Their average production was 7715 pounds of milk and 379.8 pounds of fat. These figures show there is as much difference between some purebred bulls as between some purebreds and some scrubs. A good slogan for Cow Testing members might be "Fewer Bulls and Better Bulls!"

CANNOT MOVE SILAGE

Would like to know if it would be possible to move ensilage from one silo to another and pack it so it would keep? I purchased a silo 10 miles from home and would like to fill up my own if possible.—M. E. K., Pinconning, Mich.

It would be impossible to move silage from one silo to another and have it keep, owing to the difficulty of packing it so as to exclude the air. If sufficient pressure and weight could be used to pack it as solid as it was in the silo from which being moved this could be done. But there is no method by which all of the air could be excluded and as a result the silage would be almost sure to spoil.—Geo. A. Brown, Professor of Animal Husbandry, Michigan Agricultural College.

\$2 Puts This New "No. 55" ALL WHITE



BUTTERFLY Cream Separator IN YOUR HOME

"It LOOKS Cleaner and is Easier to CLEAN" Something new! A big capacity machine in a beautiful all-white enameled frame to match the finest kitchen cabinet or range. And it's so easy to clean. Just wipe with damp cloth and keep it always glistening white. Milk and cream taste better from this spotless white Separator. The heavy white enamel is baked on in our high-heat ovens, and lasts a lifetime. The one-piece pressed steel milk tank is waist high, easy to fill, self-draining, and has removable faucet. The bowl casing has open, easily cleaned cream spouts. The "skimmer" is all in one piece, made of aluminum—easiest of all to wash. No discs to bother with. This new "No. 55" is also exceptionally light running. It "spins like a top," any 12 year old boy or girl can operate it.

Only \$2 Down A Year to Pay!

Separator quickly earns own cost. Think of it! For only \$2 down, we send you this big 300 quart capacity, all-white Separator to use on your farm. It starts saving cream for you right away and earns its own cost and more before you pay. In this way you don't feel the cost at all.

Made \$61.39 More From Same Cows
"We made \$78.61 worth of butter before we had the machine, and in the same length of time we made with the Butterfly Separator \$140 worth of butter from the same number of cows."
THOS. S. KERMSKY,
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We Give 30 Days' Trial

and pay freight both ways if you are not satisfied. More than 200,000 Butterfly Separators already in use. But this new "No. 55" All-White Separator is the finest we have ever built. Priced very low, direct from our factory. Free Catalog Folder also shows 5 other sizes, all offered on terms of only \$2 down and a year to pay. Write for Free Catalog Folder today!

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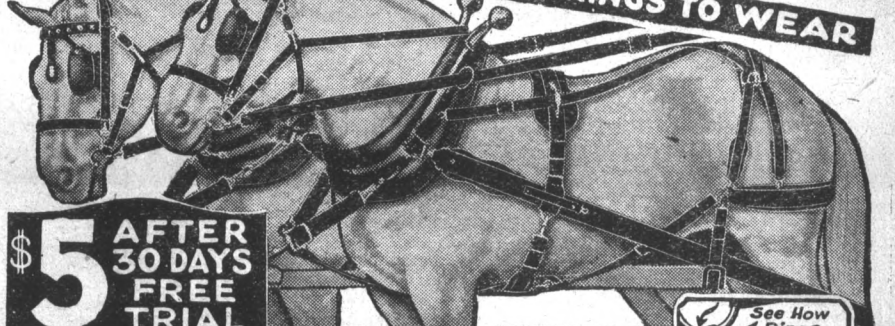
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Made in All Styles; Breechingless, Side Backer, Express, etc.

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NO BUCKLES TO TEAR

NO RINGS TO WEAR



\$5 AFTER 30 DAYS FREE TRIAL

Post Yourself on this new way of making harness, which is three times stronger than buckle harness. Before you buy harness, let me send you a set of Walsh No-Buckle Harness on 30 days' Free Trial, to show you why this harness is three times stronger without buckles, better looking and handier in every way. If not convinced, send it back at my expense. The Walsh is a proven success on thousands of farms for over 8 years.

Three Times Stronger Than Buckle Harness
Buckles weaken and tear straps. Walsh 1 1/4-inch breeching strap holds over 1100 lbs. The same strap with buckles will break at the buckle at about 350 lbs. pull. Ordinary harness has 68 buckles. Walsh Harness has no buckles. Easy to see why Walsh is three times stronger than ordinary harness. Packer's Northern Steer Hide Leather—best that can be tanned.

COSTS LESS — LASTS TWICE AS LONG
The Walsh Harness costs less because it saves many a dollar in repairs. Users show average repair cost of only 9 cents per year. No patching, no mending, because no rings to wear straps in two, no buckles to weaken and tear straps. Greatest advance in harness making. Easily adjusted to fit any horse. Write today for new reduced prices.

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Balance easy payments, or cash after trial if you wish. Write today for free book, prices, easy payments and thirty days' trial offer, also how to make money showing Walsh Harness to your neighbors.
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Also shrubs, berries and roses. Beautiful 1925 catalog sent free upon request. Full of big bargains and tells about stock to be given away. Everybody should plant this spring. It is a patriotic as well as a profitable duty. Therefore you cannot afford to be without this catalog. It will cut your tree bill in two. Ask for it to-day—NOW—right away.

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Growers of Good Trees for Many Years.

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REG. JERSEYS, POGIS 99th OF H. F. AND Majesty breeding. Young stock for sale. Herd fully accredited by State and Federal Government. Write or visit for prices and description. GUY O. WILBUR, BELDING, MICH.

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FOR SALE—REGISTERED AYRSHIRE BULLS, fit for service. T. B. Tested. From heavy producing dams. Findlay Bros., Vassar, Michigan.

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30 Wt. around 880 lbs. 68 Wt. around 750 lbs.
32 Wt. around 840 lbs. 88 Wt. around 650 lbs.
54 Angus 500 lbs. 56 Wt. around 475 lbs.
Deep reds, dehorned, good stocker order. Real quality herefords are usually market toppers when finished. Also heifers same quality. Will sell your choice from any bunch.

VAN BALDWIN, Eldon, Wapello Co., Iowa.

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.
CRAPO FARM, Swartz Creek, Michigan.

GUERNSEYS

MAY—GUERNSEYS—ROSE

STATE AND FEDERAL ACCREDITED Bull calves out of Dams up to 877 pounds fat. Sired by Bulls whose Dams have up to 1011 pounds fat. The homes of bulls; Shuttleworth May Rose Seguel, Jumbo of Briarbank and Holbecks Golden Knight of Nordland. From Dams producing 101.18 fat, 72 fat and 610 fat.
GEORGE L. BURROWS or GEORGE J. HICKS, Saginaw, W. S., Michigan.

HOLSTEINS

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.
F. H. Hemstreet and Company, Bellaire, Michigan.

SHEEP

SHROPSHIRE

Registered Shropshires. 20 Bred Ewes 1 to 5 years old; 20 ewe lambs. These sheep are of a quality that have pleased our customers since 1890.
C. Lemen & Sons, Dexter, Mich.

SWINE

HAMPSHIRE

HAMPSHIRE—SPRING BOARS FOR SALE. Place your order for Gilts bred to order, 11th year. John W. Snyder, St. Johns, Mich., R4.

O. I. C.

O. I. C.'s LAST SPRING PIGS, EITHER SEX, not akin, from big strong stock, recorded free.
OTTO B. SCHULZE & SONS, Nashville, Mich.

TELESCOPE FREE

Brass bound. Opens over 2 feet long. You can see objects a mile away. Given for selling 30 pkgs. Chewing Gum at 5 cts. a pkg. Write for Chewing Gum.
Blaine Mfg. Co., 965 Mill St., Concord Jct., Mass.

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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.

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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.)



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



Rochester Chick Hatchery, Box G, Rochester, Minn.

THE BUSINESS FARMER

"The Farm Paper of Service"

TELL YOUR FRIENDS ABOUT IT!

Get My Special Low Price

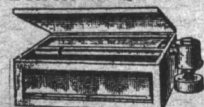
On This Wonderful Incubator

Hatches a Chick From Every Fertile Egg

The DETROIT is scientifically constructed to give big hatches of luscious, fast growing chicks. Temperature is automatically regulated by a Miller type trip burner that acts directly on the flame. Heat is held in and cold kept out by double walls having dead air spaces between them. Every part of the hatching chamber is evenly heated—the hollow square hot water tank has rounded elbows that prevent cold corners. These are only a few of the features that make the Detroit such a big hatching incubator. Write for catalog giving full and detailed description and get the almost unbelievable bargain price.

Big Combination Offer

Detroit - Alliance Incubators and Brooders



Keeps 140 chicks comfortable and warm. Insures maturity of your flock. Same efficient durable construction as in the Detroit Incubator. The most practical brooder built.

My record smashing combination offer is the talk of the country. Write for it today and learn what tremendous savings you can secure by ordering both machines at one time. Read my unconditional guarantee. Complete satisfaction or your money back is the only basis upon which I make a sale. Drop me a card tonight. I'll answer by return mail.

Wm. Campbell, President
Detroit-Alliance Incubator Co.
Dept. 10 Alliance, Ohio



You Can Own Flocks Good as Lakeview's — Buy Lakeview Chicks

The records of our pure Tancred White Leghorns range from 231 to 279. Seven high record generations in pedigree. Compare these figures with those of the egg laying contests.

Judge for Yourself

The winning pen at the International contest averaged 262. All the Leghorns averaged 176. The entire contest average was 163. In the Barred rock division the Lakeview pen was second, though one hen died. The nine averaged 194.

Read Our Catalog

Lakeview Poultry Farm

R. R. 8, Box 3. Holland, Michigan.



PURE BRED CHICKS

250 to 280

Egg Strain

pedigreed males head

our famous flocks of

Tancred American and

Tom Barron English

White Leghorns.

Sheppard's Famous

Mottled Anconas, Park's

Red-Lays. Our birds won

first prizes in egg production

class at Holland and West

Michigan State Fairs. All flocks bred

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.

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
Bd. Rocks.....\$2.25 \$3.00 \$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.



Profit Producing Baby Chicks

Tancred and Barron W. Leghorns. S. C. R. I. Reds—Parks' Barred Rocks. High quality, low in cost. Satisfaction and 100% live delivery guaranteed. Big illustrated catalog free. BRUMMER-FREDERICKSON POULTRY FARM

Box 26, Holland, Mich.



MICHIGAN HATCHERY

Pedigreed, Heavy-Egg Strain Chicks

White Leghorns headed by males direct from Eckart, just year's M. A. C.

International Egg Contest winners. Also leading strain Anconas, Rocks,

S. C. Reds. Cooled by experts. Modern

hatching methods. Guarantee 100% vigorous delivery. Free Catalog.

Michigan Hatchery, Box 4, Holland, Mich.

Baby Chicks

Are you going to put MACOMB CHICKS under your brooders this season, or "just chicks"? Investigate MACOMB quality. Michigan hatched, from guaranteed pure stock. Send for catalog. Early order discount. 100% live delivery. MACOMB POULTRY FARM & HATCHERY.

Box 173, Halfway, Michigan.

Poultry Department

SELECTION OF BREEDING STOCK

The first of a series of articles on raising chicks by Clarence Meadd Ferguson, Manager International Egg Laying Contest East Lansing, Mich.

WITH winter well advanced and hatching season almost at hand it is highly important that the final touches be given to the breeding pens which will produce our next year's crop of chicks. The old rule that "like begets like" must be the watchword of all our breeding operations. Our broiler crop, our next fall's laying pens or our Exhibition strings are all dependent on the kind of breeding stock we use in our pens this spring. This winter, with high feed prices and severe zero weather, has demonstrated the importance of having only the best of stock in our pens and this can come only by mating parents of known performance.

Selection of breeding stock should be done with the idea always in mind that the offspring is to serve a certain purpose. Thus we have breeds and strains developed which, owing to their type and characteristics, adapt themselves to our particular purpose, namely:

1. Eggs.
2. Dual purpose (Eggs and Meat)
3. Meat (Broilers, Roasters or Capons)
4. Exhibition.

While these purposes vary considerably in their nature, the same principles of breeding apply in all. We have well developed types to follow in each. It should always be remembered however that in addition to eggs and meat types, that we have breed types which designate certain characteristics common to various breeds. We should endeavor then to produce birds that are not alone efficient in one purpose, but that combine the characteristics of breed types as well.

The Selection of a Breed

We are frequently asked, "Which is the best breed?" This usually can be answered by another question, namely, "Which is the best automobile or radio set? It's always the one which you like best and which best serves your purpose.

Egg Breeds

Among the strictly egg breeds, we have the members of the Mediterranean class standing out very prominently. While Leghorns have become almost the universal standard for commercial egg farms, Anconas are enjoying more popularity of recent years, but as yet have not attained the degree of efficiency of the White Leghorn. Minorcas, a breed once very popular as an egg breed, has lost considerable prestige due to the fact that Minorcas do not make attractive carcasses when dressed. They have enjoyed a wonderful reputation however for the production of large white eggs.

Dual Purpose Breeds

The farmer has always found the Plymouth Rock, Wyandotte, Rhode Island Red or Orpington, particularly well suited to his purpose. These breeds have been improved until we have families or strains noted for egg production. These birds are also the source of the great bulk of our fancy broilers and roasters. The Barred Plymouth Rock is without question one of the most popular of the dual purpose varieties, but breeders of Wyandottes and Rhode Island Reds have improved these birds until we now find many excellent egg producing strains among them.

Meat Breeds

Few poultrymen specialize in the production of meat alone. The dual purpose breeds produce the great bulk of our broilers. Fancy heavy roasters and capons however, can be produced to better advantage from the so called meat breeds such as Brahmas, Jersey Black Giants, Cornish or Orpingtons.

Exhibition

The production of birds for exhibition purposes alone has been followed largely by fanciers. The more practical fancier has bred some of the utility breeds, bearing in mind not only exhibition qualities, but production as well. We have, however, (Continued on Page 28)



WITH THE FERTILIZER LEADERS OF AMERICA

One man will work his field, fertilize it well, and get a corn crop that makes 60 bushels an acre. Another farmer across the fence will work just as hard but gets only 40 bushels an acre. Same way with making fertilizer. Some folks just have the knack of doing a better job. A company of fertilizer manufacturers doing business in your state has made such a good record that they are known as the "Fertilizer Leaders of America". They put nothing but the best plant-food into their fertilizer.

Readily Available Phosphorus

The Crop Making Material

Nitrogen—(Or Ammonia)

From many sources so blended that the plant may feed on it, as needed, from seed-time to harvest

Soluble Organic Potash

From high grade imported potash and ground tobacco stems

Following the recommendation of your Agricultural Experiment Station the Nitrogen, Phosphorus and Potash are combined to meet the needs of every crop and soil. The fertilizer is cured a long time and ground fine so it will drill easily. When it is shipped to you it is the best fertilizer that can be made. No wonder these folks are called the "Fertilizer Leaders of America". Get their fertilizer from your dealer or write direct for information.



Federal Chemical Co., Inc.
LOUISVILLE KY. NASHVILLE TENN. COLUMBUS O.

DOWNS TANCREDBARRON

1882

For forty three years the name Downs has been associated with poultry. During most of this time our business has been purely local. Thru this local business we have built up a reputation for

1925

HIGH QUALITY WHITE LEGHORNS

That has brought us results over a much larger field than we had anticipated. With our increase to a larger capacity we feel that we will be national business. With our own flock to offer you the best hatchery FREE CATALOGUE gives you much able to give you in this advertisement. Iness has been built up to such a high this catalogue NOW! Reference: Romeo Savings Bank, Romeo, Michigan.

**HONESTY
OUR MOTTO**

W. A. DOWNS POULTRY FARM, Box 105, WASHINGTON, MICH.

First Quality Baby Chicks

From Winter Laying stock produced by Michigan's old reliable hatchery, pioneer breeders and hatchers operating the best equipped and most modern hatchery in the state. Pure bred Tom Barron and American White Leghorns, Anconas, Barred Rocks and R. I. Reds. Strong, well hatched chicks from tested Hoganized free range stock that make wonderful winter layers. Chicks sent by Insured Parcel Post, prepaid to your door. 100 per cent live delivery guaranteed. Seventeen years of experience in producing and shipping chicks, giving absolute satisfaction to thousands. Write for valuable illustrated free catalog and price list. Get lowest prices on best quality chicks before placing your order.

HOLLAND HATCHERY & POULTRY FARM, R7, Holland, Michigan.



BIG HUSKY CHICKS

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

Varieties Postpaid prices on 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).....4.00 7.75 15.00 72.50 140.00

Mixed Chicks.....2.75 5.50 10.00 50.00

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.

STOP, LOOK, BABY CHICKS—100% live delivery

Chicks from healthy pure-bred flocks especially culled for egg production. We have been in business for 13 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.

"NOT A KICK IN A MILLION FEET"

Reg. U. S. Pat. Off.



Buy your lumber
and roofing supplies
wherever you see
this sign of
Dependable Quality

The Lehon Company
Manufacturers
CHICAGO

There's a Mule-Hide Sales
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Trees From Kalamazoo

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Also shrubs, berries and roses. Beautiful 1925 catalog sent free upon request. Full of big bargains and tells about stock to be given away. Everybody should plant this spring. It is a patriotic as well as a profitable duty. Therefore you cannot afford to be without this catalog. It will cut your tree bill in two. Ask for it to-day—NOW—right away.

CELERY CITY NURSERIES

Growers of Good Trees for Many Years. Box 210, Kalamazoo, Mich.

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Advertisements inserted under this heading for reputable breeders of live stock at special low rates to encourage the growing of pure-breds on the farms of our readers. Our advertising rate is thirty cents (30c) per agate line per insertion. Fourteen agate lines to the column inch or \$4.20 per inch, less 2% for cash if sent with order or paid on or before the 10th of month following date of insertion. SEND IN YOUR AD AND WE WILL PUT IT IN TYPE FREE, so you can see how many lines it will fill. Address all letters, BREEDERS' DIRECTORY, MICHIGAN BUSINESS FARMER, MT. CLEMENS, MICH.

JERSEYS

REG. JERSEYS, POGIS 99th OF H. F. AND Majesty breeding. Young stock for sale. Herd fully accredited by State and Federal Government. Write or visit for prices and description. GUY O. WILBUR, Belding, Mich.

AYRSHIRES

FOR SALE—REGISTERED AYRSHIRE BULLS, fit for service. T. B. Tested. From heavy producing dams. Findlay Bros., Vassar, Michigan.

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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.)



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



Rochester Chick Hatchery, Box G, Rochester, Minn.

THE BUSINESS FARMER

"The Farm Paper of Service"

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Get My Special Low Price —

On This Wonderful Incubator

Hatches a Chick From Every Fertile Egg

The DETROIT is scientifically constructed to give big hatches of luscious, fast growing chicks.

Temperature is automatically regulated by a Miller type trip burner that acts directly on the flame. Heat is held in and cold kept out by double walls having dead air spaces between them. Every part of the hatching

chamber is evenly heated—the hollow square hot water tank has rounded elbows that prevent cold corners.

These are only a few of the features that make the Detroit such a big hatching incubator. Write for catalog giving full and detailed description and get the almost unbelievable bargain price.

Big Combination Offer
Detroit—Alliance Incubators and Brooders



Keeps 140 chicks comfortable and warm. Insures maturity of your flock. Same efficient durable construction as in the Detroit incubator. The most practical brooder built.

My record smashing combination offer is the talk of the country. Write for it today and learn what tremendous savings you can secure by ordering both machines at one time. Read my unconditional guarantee. Complete satisfaction or your money back is the only basis upon which I make a sale. Drop me a card tonight. I'll answer by return mail.

Wm. Campbell, President
Detroit-Alliance Incubator Co.
Dept. 10 Alliance, Ohio



You Can Own Flocks Good as Lakeview's — Buy Lakeview Chicks

The records of our pure Tancred White Leghorns range from 231 to 279. Seven high record generations in pedigree. Compare these figures with those of the egg laying contests.

Judge for Yourself

The winning pen at the International contest averaged 262. All the Leghorns averaged 176. The entire contest average was 168. In the Barred Rock division the Lakeview pen was second, though one hen died. The nine averaged 194.

Read Our Catalog

Lakeview Poultry Farm

R. R. 8, Box 3, Holland, Michigan.

PURE BRED CHICKS

250 to 280 Egg Strain
pedigreed males head our famous flocks of Tancred American and Tom Barron English 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 Michigan State Fairs. All flocks bred 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.

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
Bd. 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.



Profit Producing Baby Chicks

Tancred and Barron W. Leghorns. S. C. R. I. Reds—Parks' Barred Rocks. High quality, low in cost. Satisfaction and 100% live delivery guaranteed. Big illustrated catalog free.

BRUMMER-FREDERICKSON POULTRY FARM

Box 26, Holland, Mich.



MICHIGAN HATCHERY

Pedigreed, Heavy-Egg Strain Chicks
White Leghorns headed by males direct from Eckart; last year's M.A.C. International Egg Contest winners. Also leading strain Anconas, Rocks, S.C. Reds. Cooled by experts. Modern hatching methods. Guarantee 100% vigorous delivery. Free Catalog.

Michigan Hatchery, Box 4, Holland, Mich.

Baby Chicks

Are you going to put MACOMB CHICKS under your brooders this season, or "just chicks"? Investigate MACOMB quality. Michigan hatched from guaranteed pure stock. Send for catalog. Early order discount. 100% live delivery.

MACOMB POULTRY FARM & HATCHERY.

Box 173, Halfway, Michigan.

Poultry Department

SELECTION OF BREEDING STOCK

The first of a series of articles on raising chicks by Clarence Meadd Ferguson, Manager International Egg Laying Contest East Lansing, Mich.

WITH winter well advanced and hatching season almost at hand it is highly important that the final touches be given to the breeding pens which will produce our next year's crop of chicks. The old rule that "like begets like" must be the watchword of all our breeding operations. Our broiler crop, our next fall's laying pens or our Exhibition strings are all dependent on the kind of breeding stock we use in our pens this spring. This winter, with high feed prices and severe zero weather, has demonstrated the importance of having only the best of stock in our pens and this can come only by mating parents of known performance.

Selection of breeding stock should be done with the idea always in mind that the offspring is to serve a certain purpose. Thus we have breeds and strains developed which, owing to their type and characteristics, adapt themselves to our particular purpose, namely:

1. Eggs.
2. Dual purpose (Eggs and Meat)
3. Meat (Broilers, Roasters or Capons)
4. Exhibition.

While these purposes vary considerably in their nature, the same principles of breeding apply in all. We have well developed types to follow in each. It should always be remembered however that in addition to eggs and meat types, that we have breed types which designate certain characteristics common to various breeds. We should endeavor then to produce birds that are not alone efficient in one purpose, but that combine the characteristics of breed types as well.

The Selection of a Breed

We are frequently asked, "Which is the best breed?" This usually can be answered by another question, namely, "Which is the best automobile or radio set? It's always the one which you like best and which best serves your purpose.

Egg Breeds

Among the strictly egg breeds, we have the members of the Mediterranean class standing out very prominently. While Leghorns have become almost the universal standard for commercial egg farms, Anconas are enjoying more popularity of recent years, but as yet have not attained the degree of efficiency of the White Leghorn. Minorcas, a breed once very popular as an egg breed, has lost considerable prestige due to the fact that Minorcas do not make attractive carcasses when dressed. They have enjoyed a wonderful reputation however for the production of large white eggs.

Dual Purpose Breeds

The farmer has always found the Plymouth Rock, Wyandotte, Rhode Island Red or Orpington, particularly well suited to his purpose. These breeds have been improved until we have families or strains noted for egg production. These birds are also the source of the great bulk of our fancy broilers and roasters. The Barred Plymouth Rock is without question one of the most popular of the dual purpose varieties, but breeders of Wyandottes and Rhode Island Reds have improved these birds until we now find many excellent egg producing strains among them.

Meat Breeds

Few poultrymen specialize in the production of meat alone. The dual purpose breeds produce the great bulk of our broilers. Fancy heavy roasters and capons however, can be produced to better advantage from the so called meat breeds such as Brahmas, Jersey Black Giants, Cornish or Orpingtons.

Exhibition

The production of birds for exhibition purposes alone has been followed largely by fanciers. The more practical fancier has bred some of the utility breeds, bearing in mind not only exhibition qualities, but production as well. We have, however,

(Continued on Page 28)



WITH THE FERTILIZER LEADERS OF AMERICA

One man will work his field, fertilize it well, and get a corn crop that makes 60 bushels an acre. Another farmer across the fence will work just as hard but gets only 40 bushels an acre. Same way with making fertilizer. Some folks just have the knack of doing a better job. A company of fertilizer manufacturers doing business in your state has made such a good record that they are known as the "Fertilizer Leaders of America". They put nothing but the best plant-food into their fertilizer.

Readily Available Phosphorus

The Crop Making Material

Nitrogen—(Or Ammonia)

From many sources so blended that the plant may feed on it, as needed, from seed-time to harvest

Soluble Organic Potash

From high grade imported potash and ground tobacco stems

Following the recommendation of your Agricultural Experiment Station the Nitrogen, Phosphorus and Potash are combined to meet the needs of every crop and soil. The fertilizer is cured a long time and ground fine so it will drill easily. When it is shipped to you it is the best fertilizer that can be made. No wonder these folks are called the "Fertilizer Leaders of America". Get their fertilizer from your dealer or write direct for information.



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DOWNS TANCREDBARRON

1882 For forty three years the name Downs has been associated with poultry. During most of this time our business has been purely local. Thru this local business we have built up a reputation for

HIGH QUALITY WHITE LEGHORNS

That has brought us results over a much larger field than we had anticipated. With our increase to a larger capacity we feel that we will be able to handle a better position to handle a of 2200 select layers we are in a position to offer you the best hatchery FREE CATALOGUE gives you much able to give you in this advertisement. This catalog has been built up to such a high this catalogue NOW! Reference: Romeo Savings Bank, Romeo, Michigan.

W. A. DOWNS POULTRY FARM, Box 105, WASHINGTON, MICH.

First Quality Baby Chicks

From Winter Laying stock produced by Michigan's old reliable hatchery, pioneer breeders and hatchers operating the best equipped and most modern hatchery in the state. Pure bred Tom Barron and American White Leghorns, Anconas, Barred Rocks and R. I. Reds. Strong, well hatched chicks from tested Hoganized free range stock that make wonderful winter layers. Chicks sent by Insured Parcel Post, prepaid to your door. 100 per cent live delivery guaranteed. Seventeen years of experience in producing and shipping chicks, giving absolute satisfaction to thousands. Write for valuable illustrated free catalog and price list. Get lowest prices on best quality chicks before placing your order.

HOLLAND HATCHERY & POULTRY FARM, R7, Holland, Michigan.

BIG HUSKY CHICKS

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

Winstrom Poultry Farm, Box C-5, Zeeland, 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 13 years. Due to increased demand we have enlarged our plant. 25% down books order.

Winstrom Poultry Farm, Box C-5, Zeeland, Michigan.

**"Better Farming; Better
Business; Better Living"**
—Roosevelt.



BUILDING A MORE PROSPEROUS AGRICULTURE

MORE THAN 300,000 farmers are improving their farms and paying off their mortgages through the aid of Federal Land Bank Loans. They enjoy easier terms and lower interest rates. These helpful loans are made by the twelve Federal Land Banks, with combined assets of nearly \$1,000,000,000. More than \$45,000,000 of their capital stock has been supplied by active farmers through their farm loan associations.

Thus the twelve Federal Land Banks, with their more than 4,600 local national farm loan associations, make up the farmers' own borrowing and investment system, operating under Government supervision.

To provide funds for loaning, the Banks issue Federal Land Bank Bonds, secured by first mortgages on approved farms valued by Government appraisers at not less than double the amount of the mortgages. Every Bond is guaranteed jointly by all the twelve Federal Land Banks with combined capital and reserve exceeding \$50,000,000. These Bonds are everywhere recognized as a standard investment security.

Every farm family can share in the benefits of this mutual system by owning Federal Land Bank Bonds. A beginning can be made with a single Bond. Denominations are \$40, \$100, \$500, \$1,000, \$5,000 and \$10,000. Coupon or registered form. Interest will be promptly paid twice yearly, and the principal when due. Both interest and principal are tax-free, inheritance taxes only excepted. If desired, the Bonds can be quickly sold for cash or used as security for a loan.

Federal Land Banks are located at

Springfield, Mass.	St. Louis, Mo.	Louisville, Ky.	Columbia, S. C.
New Orleans, La.	Berkeley, Cal.	St. Paul, Minn.	Houston, Texas
Wichita, Kansas	Omaha, Nebr.	Baltimore, Md.	Spokane, Wash.

Write for Federal Farm Loan Board Circular No. 16 descriptive of these Bonds, addressing nearest Federal Land Bank or the Fiscal Agent.

Fiscal Agent

FEDERAL LAND BANKS
Washington, D. C.

BABY CHICKS From World's Greatest Layers Low Prices—Catalog Free

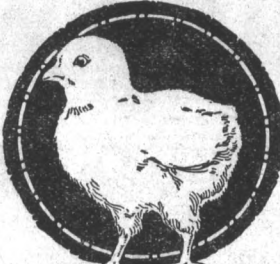
Eckhard and Tom Barron W. Leghorns—Heavy Type Brown Leghorns—R. C. and S. C. Rhode Island Reds—Rhode Island Whites—Sheppard's Anconas—Park's Barred Rocks

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. Flocks are carefully culled and developed on free range. All chicks are hand picked and inspected, no cripples or weaklings. Every one strong and healthy.

100% Live Delivery—Postage Paid

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

Knoll's Hatchery, R. R. 12, Box B., Holland, Mich.



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.



KEYSTONE HATCHERY CHICKS

Hatched from selected, bred-to-lay fowls of leading best strains.
100% Live Arrival Guaranteed.

Postpaid prices on	50	100	500	1000
Utility Single Comb White Leghorns	\$6.00	\$12.00	\$57.50	\$115.00
Barron S. C. White Leghorns	7.00	14.00	65.00	130.00
Tancred S. C. White Leghorns, R. I. Reds	8.00	16.00	75.00	150.00
Barred & Wht. Rocks, Wht. Wyandottes, Buff Orpington	9.00	17.00	80.00	
Extra Selected R. C. and S. C. Reds	9.50	18.00	85.00	
Foreman Strain Barred Rocks	10.50	20.00	95.00	

Order right from this ad. KEYSTONE HATCHERY, Dept. 51, Lansing, 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. Tinholt, Box T, Holland, Michigan.



THE BUSINESS FARMER
"The Farm Paper of Service"
TELL YOUR FRIENDS ABOUT IT!

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

such breeds as Polish, Ornamental Games and Bantams which offer the fancier wonderful opportunities to exercise his skill as a breeder.

Breeding Systems

An article of this kind would not be complete without some reference to the common systems employed by breeders.

1. **Cross Breeding.** This term refers to the practice of breeding individuals of two distinct breeds. It can hardly be recommended as a common practice due to lack of uniformity in the appearance and performance of the offspring. It usually results in increased vigor and vitality in the offspring of the first cross which doubtless accounts for the practice being advocated by some breeders. The practice has met with very satisfactory results in the production of capons and roasters. The common cross employed for this purpose is a male of one of the meat breeds, namely Cornish or Brahma with females of some of the dual pur-



This is Hen No. 1188, a reserve in the 1923-24 Michigan Egg Laying Contest, owned by L. F. Heasley, Dorr, Mich. This hen stood second for all birds with 282 eggs. Nov. 17, 1923 to November 1, 1924. In the next 16 days she produced 11 eggs giving her a 365 day record of 282 eggs. Nov. 17, 1923 to November 1, in your breeding operations.

pose breeds this gives the breeder the advantage of the greater egg production of the females for hatching purposes and the greater fleshing of the male parentage. It is generally recommended that pure bred stock be used for each year's operations, marketing both males and females.

Out Crossing. This practice consists of the mating of individuals of the same breed which are not at all related. This is usually done to correct some defect within the strain to be improved, or to introduce some desirable character from another strain which is not possessed by the family or strain in question. The great variation which may occur necessitates caution in the practice of out crossing.

Line Breeding. The practice of line breeding offers the greatest opportunity for improvement with assurance of uniformly good results. It embodies the practice of mating individuals of the same family or strain which are not too closely related. The breeder using this method is not in danger of introducing undesirable characters from outside the strain. He must be careful however, to use extreme care in selection to be sure that the individuals not only have good records of performance, but that they have in abundance, vigor and vitality, accompanied by the type desired. This method of breeding has given us some of our most famous strains or families of poultry and live stock.

In Breeding. The three common matings referred to as in breeding are:

1. Breeding sire to daughter producing offspring having one-fourth blood like the mother.
2. Breeding son to dam thus producing offspring having three-fourths of mother's blood line.
3. Breeding brother and sister producing offspring with the blood line of sire and dam in equal proportions.

This practice where the parents are carefully selected, often gives excellent results. The offspring from such matings are generally very potent. This system has been criticized because of the loss of vigor due to the intensifying of these characters. This means that extreme care



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.

Aristocrat 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



How to Hatch Every Fertile Egg

Learn all about the World's greatest incubator improvements. Read how others are getting record hatches, finding it profitable to throw away poorly made incubators and using a "103-Degree".

103-Degree Incubators

Make it impossible to overheat eggs or chill them. Extreme heat, cold or sudden changes make no difference. No sleepless nights. The Patented Two-Circuit Hot Water Heating System and Tilting Chimney assure satisfactory results.

FREE TRIAL
for one hatch
Prove it at our
risk. Write
today for free
book.
**103-Degree
Incubator Co.**
Crown Point
Ind., Box 501



Out in Front at Contest

The Royal White Leghorn pen at the International Egg Laying contest of 1925 led the entire contest for the first two weeks and has been a close second in the Leghorn class for three months. High breeding counts.

Write for catalog.

S. P. WIERSMA, Zeeland, Mich., R. R. 2.

CHICKS THAT LIVE

From sturdy, healthy free-range flocks. Fluffy, lively youngsters that should grow fast, and get on an all-year-round 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 produces 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.**

BABY CHICKS

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.

BECKMAN HATCHERY
26 Lyon St. Grand Rapids, Mich.

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. Shipped prepaid parcel post. Safe arrival guaranteed. Ask about 8 wk. pullets. Catalog free. **Gilt Edge Poultry Ranch of Zeeland, Michigan.**

Cured His Rupture

I was badly ruptured while lifting a trunk several years ago. Doctors said my only hope of cure was an operation. Trusses did me no good. Finally I got hold of something that quickly and completely cured me. Years have passed and the rupture has never returned, although I am doing hard work as a carpenter. There was no operation, no lost time, no trouble. I have nothing to sell, but will give full information about how you may find a complete cure without operation, if you write to me, Eugene M. Pullen, Carpenter, 44L Marcellus Avenue, Manassquan, N. J. Better cut out this notice and show it to any others who are ruptured—you may save a life or at least stop the misery of rupture and the worry and danger of an operation.—(Adv.)

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Lusty, Fast-Growing Money Makers

Superior baby chicks are bred-to-lay birds. They are trap-nested from world champion layers such as the internationally famous Tom Barron and Hollywood strains of White Leghorns.

This pedigree blood in Superior chicks is an assurance of early returns and handsome profits.

Hatched in state inspected hatchery — the largest and finest in Michigan — with a capacity of 150,000 eggs to a setting. Live deliveries to any point within 1500 miles absolutely guaranteed. Money back if not satisfied. Book your order now and receive liberal discount. Write for free catalog and price list today.

SUPERIOR POULTRY FARMS
Box 201 Zeeland, Mich.

Write Today

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 PREE SONS

R. R. 1, HOLLAND, MICH.

140 Egg Incubator \$13.25
30 Days Trial

Freight Paid east of the Rockies. Hot water, copper tanks—double walls—dead air space—double glass doors—a real bargain at \$13.25. Shipped complete, set up ready to use.

140 Egg Incubator and Brooder	\$17.75
180 Egg Incubator Alone	15.75
180 Egg Incubator and Brooder	22.00
250 Egg Incubator Alone	22.75
250 Egg Incubator and Brooder	31.00
340 Egg Incubator Alone	30.75

Made of California Redwood. Order direct from this ad. 30 days trial—money back if not pleased. If not ready to order now, don't buy until you get our 1925 catalog which shows larger sizes up to 1000 eggs.

WISCONSIN INCUBATOR CO. Dept. 134 Racine, Wis.

First Choice
White Leghorn
CHICKS

Bred for High-Flock Average

Barron English hens mated to Hollywood males from pedigreed ancestry of 260-290.

Our own Rural strain of White Leghorns, Barron strain.

R.I. Rocks—Br. Leghorns
Anconas. Catalog free.

Rural Poultry Farm
Box 660, R1, Zeeland, Mich.

CHIX OF QUALITY

Hatched in Wishbone Incubators.

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

Barred Rocks..... { \$16 per 100
\$75 per 500

De KOSTER'S HATCHERY,
Zeeland, Mich., Box 300.

CHICKS FOR 1925

Again we are ready to book orders for Baby Chicks: Barred and White Rocks, Reds, White and Silver Laced Wyandottes, White and Buff Orpingtons, Black Minorcas, Anconas, White, Brown and Buff Leghorns.

Send for Poultry Circular with price list.

100 per cent delivery.

STATE FARMS ASSOCIATION,

Kalamazoo, Michigan.

Active Member International Baby Chick Association.

Member Michigan State Farm Bureau.



Profit Makers—Early Layers

Leghorns, Anconas, Rocks, Reds, Wyandottes, Orpingtons, Minorcas. Lowest prices. Catalog free. Address nearest office.

D. T. FARROW CHICKERIES

Peoria, Ill., Des Moines, Ia., Milwaukee, Wis., Indianapolis, Ind.

FAVORITE BREEDS—FAMOUS STRAINS

From expert culled, HEALTHY flocks of utility, egg contest, prize-winning blood. Leghorns, Barred and W. Rocks, R. I. Reds, W. Wyandottes and Anconas. Extra chicks free with early orders. Guaranteed.

HAIGHT HATCHERY, Cedar Springs, Michigan.

LOOK!

150,000 chix 9c up. From highest-producing contest layers. Free circular. Hatching eggs. 10 chix free with early orders.

Lawrence Hatchery, R7, Grand Rapids, Michigan.

must be used in the selection of individuals for inbreeding.

Selections of Individuals

The selection of breeding stock is largely a matter of the skill of the breeder and the records he has at hand. It involves several factors, each of importance, namely:

1. Breed type.
2. Egg production.
3. Size and type of egg produced.
4. Hatching power of the egg.

These factors can only be definitely known where accurate records are available such as trap nest records and incubation data. It is a dangerous practice to make up the breeding pens from records alone. The individuality of the stock must be considered in each case.

Where this information is not available the breeder must rely on his skill to select from outward characteristics, the individuality for his matings. A few facts should be borne in mind when making this selection.

1. **Keep only pure breeds.** Throw into discard birds which are not good representations of the breed. Standard qualifications should by all means apply to the mating of production stock as well as exhibition stock if we can hope to have the two factors combined in the one individual.

2. **Breed from Mature Birds.** Only well developed males and females should be used in the breeding pens. Hens are preferable to pullets, but where pullets are used they should be well grown and well matured. Do not use small, under developed pullets in the breeding pen.

4. **Select Heavy Producers.** This means that culling must precede the mating season. Leave only the old hens that have proven themselves good producers as pullets. In the case of pullets, select these that have proven their ability as winter layers. This character you need in the offspring.

Late Moulters. Hens moulting late and rapidly are always the ones which are capable of producing eggs over a long period of time. Do not breed from the slow moulters which are always out in new plumage in the fall, where the others are just giving into moult. Select pullets which mature early and commence laying when only four to five months of age. Use your judgment however and do not be an extremist. Extremely late moulters or hens which do not moult at all are often poor breeders. Pullets which come into production often become stunted and produce very small eggs.

Egg Type. Much has been written on egg type. Make yourself familiar with the most recent information on culling and selection. Your County Agent will assist you in having a culling school in your community where these factors can be explained and demonstrated. Space will not permit a lengthy discussion on Egg Type here so we will mention just a few high lights.

1. Early maturity.
2. Late moulting.
3. A broad flat back.
4. A long straight keel.
5. A deep wedge shaped body.
6. Close hard plumage.
7. A clean cut head.
8. A bright prominent eye.
9. A flat smooth shank.
10. Industrious and friendly temperament.

Breeding for Meat Production

When meat production is the primary purpose, selection should be made with the idea always in mind of producing offspring of uniform size, color and shape. These when killed will present the greatest quality and uniformity of dressed carcass.

Broilers. Broilers must come from matings which will produce rapid growth, early maturity and a carcass when at 8-10 weeks will be well-fleshed. You can feed on fat but muscle, breast covering and thigh fleshing must be inherited.

Roasters have a longer period of growth, consequently rapid maturity is not so essential. The stock must have a big, strong frame, capable of carrying an abundance of fleshing. The general conformation should be blocky, with round well muscled breasts and strong development of thighs.

In our next article we will discuss the selection, care and incubation of eggs.

PAN-A-CE-A

your breeders
at mating time

YOU WANT fertile eggs for hatching—eggs that will hatch into strong, livable chicks.

See to it that your flock, your hens and roosters, are in the pink of condition at the time the hatching eggs are laid.

Dr. Hess Poultry Pan-a-ce-a is a tonic—not a stimulant.

A tonic that imparts to the parent stock that spark of health and vigor that means fertile eggs for hatching.

Eggs that will hatch strong, livable chicks—not dead in the shell—not puny and weak.

Costs Little to Use Pan-a-ce-a

The price of just one egg pays for all the Pan-a-ce-a a hen will eat in six months.

There's a right-size package for every flock.

100 hens the 12-lb. pkg.

60 hens the 5-lb. pkg.

200 hens the 25-lb. pail

500 hens the 100-lb. drum

For 25 hens there is a smaller package

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.

DR. HESS & CLARK, Inc., Ashland, Ohio



Dr. Hess Instant Louse Killer Kills Lice



You get better stock than you are led to expect

WOLVERINE CHICKS

White Leghorns Exclusively

Are sired by males out of hens that laid 270 eggs in 365 days, and these males were sired by a male from a 300 egg hen.

Bred For Eggs Since 1910

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Chicks from this high-grade laying strain will give bigger profits, and absolute satisfaction. They have 15 years of careful selection and breeding direct behind them, and mature in the shortest possible time. You will be benefited by our 15 years experience in hatching and shipping chicks for they grow up uniform in size. They possess great vitality, and are bringing big returns in our customers' hands. Let us mail you our catalogue with prices. 100% safe arrival guaranteed.

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H. P. WIERSMA, Prop.
R. 2, ZEELAND, MICHIGAN

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WHITE LEGHORN BABY CHICKS



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for
19 YEARS

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Others
Do You
Can Do

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High flock average is the rule with Wingarden stock. Pedigree: Hens, 260-289. Males from 298-304 dams. Write for catalog.

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ANCONAS
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Our 15 years of work and experience in breeding and hatching Chicks qualifies us as 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

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S. C. White Leghorns, Extra Quality	\$4.00	\$7.50	\$14.00	\$67.50	\$130.00
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68 Varieties of Fine pure-bred chickens, ducks, geese, turkeys, fowls, eggs, baby chicks. Large illustrated catalog 5c.
A. A. Ziemer, Austin, Minn.

MARKET FLASHES

Wheat Expected to Remain Above \$2 Level

Live-stock Market for 1925 Looks Good

By W. W. FOOTE, Market Editor.

ON all sides great activity in business is reported, there being a continuance of the large traffic of the last year. Our foreign trade has shown big gains, exports to Europe last year being \$351,000,000 ahead of 1923, while our imports from Europe were \$60,000,000 smaller. Our favorable trade balance with Europe alone was \$1,348,000,000, comparing with \$936,000,000 for 1923. The development of our home trade is indicated by the substantial gains of the mail order houses which came very near making a new high record last month for January, and their late reports show prosperous conditions in agricultural districts. Heretofore most of the sales in farming districts in recent months were to meet immediate wants, but with growing prosperity, increasing sales are embracing both necessities and luxuries. The railroads carried the largest quantities of freight last month ever moved in January, and the iron and steel industry, popularly known as the barometer of trade, is now operating on a scale larger than was ever known at this season of the year. Farmers are getting much higher prices for most of their products than a year earlier and the wonderful boom in wheat prices has taken most of them by surprise, although they expected good advances because of the world's shortage. Unfortunately much of the wheat grown in the middle west was marketed before the large advances in recent weeks, but earlier gains in values were not small by any means. The danger now is that the high price of wheat will stimulate farmers of the United States and Canada to sow too much wheat and bring about a return to low prices. In the corn belt states farmers have been testing their seed corn and this is a highly important matter, as there is a great deal of corn that grades poorly. Progressive farmers are making handsome returns on their corn fields by fertilizing the soil and using only first-class tested seed. The Department of Agriculture is advising farmers to diversify their productions, and they are told that the present tendency is towards stronger competition for farm labor than last year. It is added by way of caution that increased wheat acreage this year is not advisable.

The Agricultural Outlook

Hog producers enter 1925 with 18 per cent fewer hogs than a year ago, and there is every indication that prices during the next 18 months will be higher than at any time since 1920. Six to eight million fewer pigs will be born this spring than last next fall than farrowed last fall if producers respond to the unfavorable relation of corn and hog prices as they have done in the past.

The beef cattle industry is gradually working into a more favorable position due to the relation of beef to competing commodities, especially pork, improved industrial conditions, and in no small measure to the cattlemen's own sacrifices. Market receipts will probably be somewhat smaller than in 1924. All conditions indicate that the long time outlook for the industry is even more favorable. A recovery in prices of dairy products could hardly be expected should the number of milk cows be further increased. Domestic production appears inadequate and the foreign dairy situation is such as to keep market prices low and thus limit the height to which our butter prices can rise without bringing in foreign butter.

Prospects for the sheep industry in 1925 appear favorable. The world wool outlook and the prospective meat situation in this country promise prices for 1925 at least on a par with those of 1924. There does not appear to be any immediate danger of over-production as the increase in the number of sheep has as yet been only slight.

The outlook of the poultry industry during 1925 from the standpoint of market egg prices is favorable while from the standpoint of market poultry prices, it is not so encouraging. With an abnormally large carry-over of dressed poultry in storage, it seems probable that lower prices on market poultry may prevail for at least the first half of the year.

Reaction in Wheat Prices

The recent wild boom in wheat prices brought about largely by extensive speculation, in which the general outside public took a hand, was followed by the natural reaction after May wheat had got considerably above the \$2 mark. Weakness was caused by heavy selling by traders who were ready to take their profits, and agitation in Washington to place restrictions for halting the upward movement of prices were not essentially changed, and, with the generally admitted world shortage of wheat and rye, the only question was how high prices consumers would pay. Unquestionably, rye, oats, potatoes and other foods that will be largely substituted for wheat, for flour has shared fully in the rise, but it seems safe to say that wheat will bring more than \$2 most of the time. At the same time flour has its reactions too, and it sold off 50 cents a barrel recently when prices for wheat were going up. Argentina and Australia are shipping wheat to consuming countries as fast as boats can be loaded, and large engagements are reported for later exports. In short, wherever there is available wheat for export the demand is urgent, and the larger parts of exportable surplus breadstuffs has been shipped already. It is important to know that Dr. J. W. T. Duval, supervisor of the grain futures administration in charge of the trading on the grain exchanges, says there is no foundation for the charges of manipulation in the Chicago market. An important feature is the world wide advances simultaneously, with declines at the same time. Rye is in urgent demand for export, and prices are remarkably high, while corn prices rule firm, although there is little export demand. Oats are marketed so freely that large stocks in the elevators hold prices down. There were late sales for May delivery of wheat around \$1.86, comparing with \$1.12 a year ago; corn at \$1.37, comparing with 81 cents a year ago; oats at 62 cents,

comparing with 49 cents a year ago; and rye at \$1.75 1/4, comparing with 75 cents a year ago.

The Cattle Industry

Reduced cattle feeding operations point to good prices for the future, provided their owners market them in good condition and do not carry them for too long a period, for corn is selling at unusually high prices, while yearlings are preferred by the packers to heavy cattle and outsell them. Now and then a sale is made in the Chicago market of prime heavy steers, at an extra high price, and a short time ago 39 head of fancy long fed Herefords averaging 1636 pounds brought \$11.25, but the general run of beef steers sell at \$8 to \$10.50, with the choicer class of yearlings taken at \$8.75 to \$12.50 and not many above \$11. Sales are made down to \$6.50 to \$7.50 for the commoner light steers, with inferior little steers taken at \$4.50 to \$6.25. Decreasing receipts have resulted in advances of prices, and no good steers sell below \$9, while butcher lots of cows sell at \$3.75 to \$9.75, canner and cutter cows at \$2.50 to \$3.70, bulls at \$3.50 to \$6.50 and calves at \$6 to \$15 per 100 pounds, the eastern embargo on poultry bringing about a brisk demand for calves at much advanced prices. Stockers and feeders have a moderate sale lately at \$4.50 to \$7.50, going mainly at \$6 to \$7. A year ago beef steers were selling for \$6.65 to \$11.50. Combined receipts in twenty markets for the year to late date amount to 1,318,000 head of cattle, comparing with 1,388,000 a year ago.

Hogs in Active Demand

Of late there has been the strongest kind of a demand for swine ever seen in the Chicago stock yards, and prices had good advances, reaching the highest level recorded in about four months, despite liberal supplies most of the time. Monday is the day usually of large supplies, and on a late Monday 101,087 hogs showed up, being among the largest runs ever seen. Shippers to eastern packing points are active buyers, and their purchases mean competition between buyers, shipments from Chicago on Monday amounting to 26,419 hogs. Recent marketings averaged 225 pounds, being three pounds less than a week earlier, five pounds less than a year ago and twelve pounds less than two years ago. High-priced corn accounts for the falling off in weight. Hogs have graded well, and the bulk sold within a range of 50 cents, with prime heavy butchers at the top, these selling 35 cents above the best light bacon hogs.

Coarse, rough, heavy hogs are discriminated against. Fresh and cured hog products are having a large domestic consumption, but their great advance in prices has caused their exportation to fall far below exports a year ago. Combined receipts in twenty markets for the year to late date amount to 5,498,000 hogs, comparing with 5,633,000 a year ago. One year ago hogs sold at \$6.20 to \$7.45. Late hog sales were at \$10.10 to \$11.10.

WHEAT

There was some reaction in the Detroit market last week and prices went down below \$2.00 per bushel but as all old causes of high prices remain they are not expected to decline much below that level and the majority of the dealers declare wheat will continue around \$2.00 for some time. Some are expecting prices to establish a new high level in the near future.

CORN

Corn is slightly higher at Detroit than it was two weeks ago with trading rather quiet.

OATS

There is very little doing in the Detroit oat market at the present time and the market is easy with prices a fraction of a cent above what they were two weeks ago.

RYE

Prices in the Detroit rye market are lower than they were a fortnight ago and the market is quiet. This grain follows wheat and if the latter advances we expect to see higher prices for rye.

BEANS

The Detroit bean market has not recovered from the recent slump as rapidly as was expected but it is bound to come back. Students of the market say that the slump was caused by speculators but they will not be able to control the trend very long as conditions in the market are such that the market must advance.

POTATOES

Farmers are unloading their surplus potatoes rapidly and the result is the market is easy and lower prices are expected if receipts continue heavy. The warm weather we have been having has had a depressing effect on the market.

HAY

Receipts have fallen off in the hay market and a steady demand is reported for good hay. Poor grades continue to sell at wide discounts.

THE BUSINESS FARMER'S MARKET SUMMARY

and Comparison with Markets Two Weeks ago and One Year ago

	Detroit Feb. 11	Chicago Feb. 11	Detroit Jan. 13	Detroit 1 yr. ago
WHEAT—				
No. 2 Red	\$1.99	\$2.00	\$2.13	\$1.15 1/2
No. 2 White	1.95		2.13	1.16 1/2
No. 2 Mixed	1.95	2.00	2.13	1.15 1/2
CORN—				
No. 3 Yellow	1.28	1.25	1.28	.86
No. 4 Yellow	1.23	1.18 @ 1.21	1.23	.84
OATS—				
No. 2 White	.63 1/2	.58 @ .59	.63	.54
No. 3 White	.62	.53 @ .56	.62	.52 1/2
RYE—				
Cash No. 2	1.50		1.65	.74
BEANS—				
C. H. P. Cwt.	6.30 @ 6.35	6.00 @ 6.50	6.40 @ 6.50	5.00
POTATOES—				
Per Cwt.	1.17	1.05 @ 1.15	1.20 @ 1.23	1.20 @ 1.40
HAY—				
No. 1 Tim.	17 @ 18	20 @ 22	17.50 @ 18.50	23 @ 25
No. 2 Tim.	15 @ 16	16 @ 18	15.50 @ 16.50	22 @ 23
No. 1 Clover	14 @ 15	16 @ 17	15 @ 16	20.50 @ 21
Light Mixed	16 @ 17	18 @ 20	16.50 @ 17.50	20.50 @ 21

Wednesday, Feb. 11.—All grains quiet. Bean market steady. Potatoes easy. Cattle irregular. Hogs decline.

LIVESTOCK MARKETS

DETROIT, Feb. 11.—Cattle market steady but extremely dull. Good to choice yearlings, dry fed, \$9.25 @ 9.75; best heavy steers, dry fed \$7.75 @ 8.50; handy-weight butcher steers, \$7 @ 7.50; mixed steers and heifers, \$5.50 @ 7; handy light butchers, \$5.25 @ 6; light butchers, \$4.25 @ 5; best cows, \$5 @ 5.50; butcher cows, \$3.50 @ 4.25; common cows, \$3 @ 3.75; canners, \$2.50 @ 2.75; choice light bulls, \$4.50 @ 6; heavy bulls, \$4.50 @ 5.25; stock bulls, \$3 @ 4; feeders, \$5 @ 6; stockers, \$4.50 @ 5.75; milkers and springers, \$45 @ 70.

Veal Calves.—Market \$1 lower; best, \$13.50 @ 14; others, \$6 @ 13.

Sheep and Lambs.—Market 25c lower; best lambs, \$17.50 @ 17.75; fair lambs, \$16.75 @ 17; light to common lambs, \$8 @ 13; fair to good sheep, \$8 @ 9.50; culls and common, \$4 @ 4.75; buck lambs, \$7 @ 16.50.

Hogs.—Market prospects, mixed and heavy hogs, \$11.35 @ 11.50.

EAST BUFFALO.—Cattle.—Receipts, 100, active and steady.

Calves.—Receipts, 400; slow; 50c lower; choice, \$13 @ 13.50; fair to good, \$10.50 @ 12.50; culls, \$6 @ 7; heavy, \$6 @ 8; grassers, \$3 @ 5.

Hogs.—4,000; slow; 10 to 15c lower; heavy, \$11.60; mixed, \$11.40 @ 11.50; yorkers, \$11.25 @ 11.40; light yorkers, \$10 @ 10.75; pigs, \$9 @ 9.50; roughs, \$10; stags, \$5 @ 7.

Sheep and Lambs.—Receipts, 2,500; lambs, \$10 @ 12.25; yearlings, \$10 @ 15; wethers, \$10.50 @ 11; ewes, \$3 @ 10; mixed sheep, \$10 @ 10.50.

CHICAGO.—U. S. Department Agriculture.—Hogs.—Receipts, 30,300; market less

active than early; mostly 10 to 15 cents higher on hogs averaging 180 pounds upward; light lights and pigs weak to 25 cents lower than Monday's average; top, \$11.40; several loads at that price; bulk desirable weight butchers, \$11.20@11.35; most good and choice 180 to 220-pound kind, \$10.85@11.20; 140 to 170-lb weights, \$9.50@10.15; most desirable strong weight slaughter pigs, \$8.75@9.25; few sales of packing sows, \$10.25@10.50; heavyweight hogs, \$10.85@11.40.

I think you have a fine paper.—R. A. Henderson, Mich.

I have been a reader of the M. B. F. for two years and think it is a real farm paper.—Mrs. F. A. Marion, Michigan.

I think you have a wonderfully good paper.—J. H. Jackson, Michigan.



Week of February 15

A RAPID rise in temperature at beginning of this is expected in Michigan due to the effects of a western storm that will become severe as it moves eastward.

Increasing cloudiness, rain or snow and high winds will reach this state about Monday and continue over Tuesday and Wednesday with renewed storminess during the latter days of this week. Sleet and glaze storms together with severe winds are expected to do much in interfering with traffic and wire communication. These conditions materializing will greatly effect local markets in many commodities.

Immediately following these storm conditions the temperature will fall decidedly to readings below the seasonal normal for this state. Temperatures will then generally remain on the downward trend until after the middle part of next week.

Week of February 22

While temperatures will show a moderation at beginning of this week in Michigan we do not expect any great warmth. The next decided high temperature wave will not occur in this state until near the close of this week.

Neither do we expect any great heavy snow falls in this state generally at beginning of this week as the low barometric pressure centers over Michigan.

Sunday and Monday the sky will be overcast with resulting snow flurries and winds followed during middle part of week with falling temperatures and clearing skies.

Cool temperatures of middle part of week will be quickly displaced with general moderation from a more important storm influence which is due to effect Michigan about the last three days of this week. This particular storm area will run into the early part of next week and during its stay in this state will produce a considerable amount of snow or rain or both, depending upon location and time of day of precipitation.

Don't Pay for 4 Months

So that you may see and use the only cream separator with a suspended self-balancing bowl, we will send an imported Belgium Melotte Cream Separator, any model, direct to your farm and you don't pay us for it for 4 months.

Write for FREE BOOK!

Write today for new Melotte catalog containing full description of this wonderful separator.

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FEED

If you buy feed for pigeons, poultry, hogs, sheep or cattle we can save you money. Let us send you our regular price lists and market letters.

Port Huron Storage and Bean Co. Port Huron, Michigan

IMPLEMENT PREPAREDNESS WEEK

IMPLEMENT Preparedness Week has been set for February 23-28. It is a week when every farmer, who wishes to produce in the most economical way possible the coming season, might well check up on all his equipment and by figures and cold analysis determine just what machines and implements should continue in service and what ones it would pay to displace. In manufacturing industries, machines that help produce profits are given a periodic check. If they do not work as efficiently as new, improved machines as indicated by close study of production figures, sentiment is thrown in the discard—they are junked and the new ones substituted. On the farm it should be likewise.

SPIRIT OF OPTIMISM RULES DURING FARMERS' WEEK

(Continued from Page 19)

parade was enjoyed by paraders and spectators alike.

Led by the college band, the military units, infantry, cavalry, and artillery, passed by in well trained groups. Next came the floats representing the various departments of the college, each float having been prepared by one of the student organizations. Finally came the livestock, splendid horses and cattle from the college herds.

This parade never fails to impress the visitor with the resources and strength of the college and the wide extent of its work, both for the students and for the farmers of the state.

Various Contest Test Skill

The livestock judging contests, which were started last year, were staged again this year. Entries in these contests are limited to farmers and farm boys. Each morning saw the judging pavilion well filled with farmers trying out their skill in judging the rings of horses, beef cattle, dairy cows, sheep, and hogs.

A brand new feature at the 1925 Farmers' Week was the Grange Singing Contest. Fourteen Granges took part in this contest, each Grange sending a chorus composed of about 12 of their best singers. Prizes for the contest were donated by R. E. Olds of Lansing.

First place was won by Eaton Rapids, with Stockman Grange of Bath as second, and Vermontville, third. The three prize winning groups sang at the general Farmers' Week session on Wednesday afternoon and on one evening they were featured on the broadcasting program from the college station WKAR.

One of the interesting things about Farmers' Week is the fact that it is a sort of barometer of agricultural conditions throughout the state. With the thousands of farmers in attendance from all parts of Michigan, the gathering cannot fail to reflect accurately just how the farmers are feeling. Former years have seen something of discouragement due to prevailing conditions in farming. Last year the feeling was more hopeful and the resulting season proved that the optimism was justified. This year there seemed more enthusiasm than ever. The tension caused by poor conditions seems to be practically gone and everyone is looking forward to steadily improving conditions. If the Farmers' Week barometer is as accurate as it has been in former years the agricultural situation in Michigan is bound to get better and better.

LENAAWEE COUNTY MAN IS MICHIGAN'S "CORN KING"

FOR the past two years a corn growing contest has been conducted in Michigan under the direction of the Michigan Crop Improvement Association. This second year has seen a large increase in the number of farmers entering the contest, some fifty farmers having enrolled at the beginning of the season and over half of that number actually completed the work.

First place, and the title of Michigan's "Corn King", went to Otto Wagner of Riga. His average yield was 81.25 bushels of shelled corn per acre. The value of this corn was figured at \$86.13 per acre and the margin above cultural cost was \$78.11 per acre. Considering cultural costs (fertilizer, plowing, discing, harrowing, cultivating, etc.) it cost 9.8 cents per bushel to grow the corn.

Protect it Always

THE UDDER is the key to dairy profits. Soft, pliable teats that are unobstructed and comfortable usually mean a full milking.

Bag Balm, the great healing ointment is insurance against milk losses caused by chaps, cuts, bunches, inflammation and Caked Bag. The penetrating, healing action of Bag Balm quickly restores injured tissues to normal.

The Profit Zone!

Big 10-ounce package 60c. at feed dealers, general stores, druggists. Order direct if dealer is not supplied.

Dairy Association Co., Inc.
Lyndonville, Vt.

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Cash in advance from all advertisers in this department, no exceptions and no discounts.

Forms close Monday noon preceeding date of issue. Address:

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Mt. Clemens, Michigan.

HELP WANTED

YOUNG MAN OVER SIXTEEN FOR FARM work. State age and wages expected. Burger Farm, Saginaw, W. S. Mich., Route 4.

FARM LANDS

THE CHAUTAUQUE GRAPE BELT IN WESTERN New York is one of the wealthiest farming and fruit-growing sections in the United States. Farming actually pays. Best homes, many with natural gas, electricity and flowing water. Fine locations near Lake Erie and Lake Chautauque. Paved roads. Summer-resorts. Markets. All the social advantages of close-by towns. N. Y. Farm Agency, Westfield, N. Y.

ATTENTION FARMERS—IF YOU WANT TO sell or trade your farm for Detroit city property and you want a good and honest business also quick results list your farms with us with a responsible company. We specialize in selling farms in Michigan, write to the Home Land & Building Co., 5850 Jos. Campau, Detroit, Mich.

FOR SALE—40 ACRES, 1 1/2 MILES EAST OF Marlette, Senlac Co., on good gravel road. All under cultivation. Good nine room house, steam heated and acetylene lights. Good out buildings. R. W. Cooley, Marlette, Michigan.

FARM FOR SALE—103 ACRES Limestone soil, creek watered pasture, ten room house, barn, corner barn wagon shed, garage other outbuildings young orchard 235 trees. Possession April 1st. Clyde Fritter, Barnesville, Ohio, R4.

OWING TO THE DEATH OF MY WIFE I wish to sell my 120-acre farm, 3 miles north-east of Clare. For further particulars write Fred Hudson, Clare, Michigan.

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

WANT TO RENT 60 OR 80 ACRE FARM within 40 miles of Detroit near high school. Cash or shares. A. J. Rugenstein, Utica, Mich.

FOR SALE—80 ACRES, CLEARER, TILED. Fair buildings. Sheridan Township, Clare County, John Mills, Clare, R2, Michigan.

FOR SALE TWO GOOD FARMS, 360 ACRES. A real bargain. Frank Glawe, Oquoc, Mich.

LARGE AND SMALL FARM. EASY TERMS. C Winter, Crewe, Virginia.

SEED

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, car 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.

CHOICE SEED CORN—1000 BU. 100-DAY Improved Yellow Dent: 500 bu. Lancaster County Sure Crop: 300 bu. Early White Cap, nearly all 1923 Crop, all high germination. Write for price, sample and circular. Order early to save money. Shull Farm, Box 20, Tullytown, Bucks Co., Pa.

FOR SALE—BURBANK HULLESS OATS FOR seed by grower. Full particulars and sample free. Address H. M. Welder, Fennville, Mich., R2.

FOR SALE—75 BU. UNHULLED WHITE-blossom sweet clover seed, \$2.25 per bu. G. E. McCleary, Mesick, Michigan.

MANCHU SOYBEANS—CHOICE RECLEANED, from certified seed, \$2.50 per bushel, bags included. Buy now. Guy W. Stanner Seed House, Champaign, Ill.

BEST FOR MICHIGAN, ROBUST BEANS, Wolverine Oats. Address A. B. Cook, Owosso, Michigan.

FOR SALE—FINE PETOSKEY BUSSET RURAL potatoes for seed, \$2.00 per 100 pounds. Bags free. James Anthony, Moorestown, Mich.

MANCHU SOY BEANS—1924 CROP. ENOS Stewart, Lexington, Ill.

NURSERY STOCK

22 GRAPEVINES, \$1 POSTPAID, RED, White, Blue. One week. Gobles, Mich., Lancaster.

ELDORADO BLACKBERRY PLANTS—THE only real commercial variety. A Money Maker. 100 plants, \$2.00. Wholesale prices on quantities. H. E. Keeler, Elberta, Michigan.

ALFRED BLACKBERRIES ARE 1 1/4 INCHES long. Hardy, sweet. Catalogue Free. George Stromer, New Buffalo, Michigan, Box 16.

FRUIT

FLORIDA ORANGES DIRECT TO YOU FROM Our grove, assorted box containing 48 oranges, 10 grapefruit, 20 tangerines, 48 lemons, jar fruit jelly, express paid \$3.90. Florida Orange Packing Co., Tampa, Fla.

LIVE STOCK

FOR SALE—SIX HEAD OF REG. SCOTCH Top Shorthorn cows, 4 carrying calf, 2 with calf by side. Priced reasonable. H. E. Hartwell, Williamston, Michigan.

IF YOU WANT GUERNSEY—HEIFER CALVES write L. Terwilliger, Rt. Watutosa, Wis.

PET STOCK

GUINEA PIGS FOR SALE, NICE YOUNG trio \$2.25. Nelson Frost, Flint, Mich., R1.

AIREDALE PUPS AND STUD DOGS PRICED right. No better blood in the country at any price. F. Grandstaff, Anchor, Ill.

WANTED—CANARIES, FANCY PHEASANTS and fowls, pure bred dogs and puppies. We buy sell and exchange all kinds of live stock. Free circular. Detroit Bird Store, Detroit, Mich.

FINE MUSIC BOX SONGSTERS, FIVE DOLLARS each. Mrs. B. A. Shearer, Moberly, Mo.

100 RED CARNEUX PIGEONS \$30.00. Mapledale Farms, Detroit, Minnesota.

POULTRY

BARRED ROCK COCKERELS BRED FROM Holtermann's Pedigreed Aristocrats direct. Light or dark. Price \$4. two for \$7. N. Ayers & Son, Silverwood, Mich.

BARRED ROCKS—BIG HUSKY COCKERELS, standard color, bred from great layers. Write to-day. W. C. Coffman, Benton Harbor, Mich., R3.

WHITE WYANDOTTES—BOOKING ADVANCE egg orders from 8 quality matings and utility flock. Stock all sold. Fred Berlin, Allen, Mich.

WHITE WYANDOTTE COCKERELS, \$3.50 and \$5.00 each. Eggs for hatching. F. W. Roberts, Salem, Mich.

SINGLE COMB BROWN LEGHORN COCKERELS \$1.50 each. Orin Reynolds, Clare, R5, Michigan.

REGISTERED BOURBON RED TURKEYS. Large vigorous, Axtell Strain, one and two year old stock. Mary Beacom, Marlette, Michigan.

CHICKS GUARANTEED—WHY NOT TRY some? 100% safe arrival. Toitica Hatchery, Toitica, Ill.

GIANT BRONZE TURKEYS. GOLD BANK strain. Choice heavy birds, large bone, well marked. Satisfaction guaranteed. Mrs. Perry Stebbins, Saranac, Mich.

PURE-BRED MAMMOTH BRONZE TURKEYS. fine large birds from choice stock. Mrs. Ralph Sherk, Caledonia, Mich.

FOR SALE—MAMMOTH BRONZE TURKEYS. Write for prices. Mrs. H. D. Horton, Fillon, Michigan.

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RAW FURS—MUSKRAT, BADGER, WEASELS, White or Brown. Fair assortment. Prompt returns. Shipments to held separate on request. Hold separate notice must accompany furs. Postage and Express paid. We solicit your shipments. Davis L. Dutcher, Bennington, Mich.

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HOMESPUN TOBACCO—CHEWING FIVE pounds \$1.50 ten \$2.50. Smoking five pounds \$1.25, ten \$2.00. Pipe free. Pay when received. Satisfaction guaranteed. United Tobacco Growers, Poughkeepsie, Ky.

TOBACCO—KENTUCKY'S PRIDE: EXTRA fine chewing, 10 pounds, \$3; smoking, 10 pounds, \$2; 20 pounds, \$3.50. Farmers Club, Mayfield, Ky.

HOMESPUN TOBACCO, CHEWING 5 LBS., \$1.50; 10-\$2.75. Smoking, 5 lbs., \$1.25; Mild 10-\$1.50. Pay when received. F. Garton, Bardwell, Ky.

MISCELLANEOUS

HAVE RETAIL COAL YARD IN PORT HURON. Splendid business. Will sell or trade for good farm in good location. Invite inspection. If you have alfalfa hay to sell, quote us prices and state quantities. Port Huron Storage and Bean Co., Port Huron, Michigan.

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**Your Own
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With
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There are big days, and happy days when your family and your friends sit down to your fine big dinners. Picture your pleasure in having for such occasions a Dinner Set like this; pure, gleaming, flawless white, edged with a smooth, bright, shining gold line, gold handles, and a dainty lower band of colorful orange. Then think of the added satisfaction of this distinctive feature: **Your Own Initial on Each and Every Piece.** Each initial set in an artistic wreath which is backed by a charming scroll of roses in beautiful colors. This illustration does not begin to do it justice.

Martha Washington Colonial Shape Initial Dinner Set

**110
Pieces**

No picture, no description can do justice to this exceedingly beautiful dinner set. I want you to see it on your own table. I want you to know the Attractiveness of its Aristocratic Martha Washington Colonial Shape, the Beauty of its Gold Border. I want you to see with your own eyes how the big, wide, gorgeously brilliant gold handles enliven, enrich and beautify the set. Then I want you to know the Pride of Possessing a big, fine, high-class dinner set that has your initial on each and every piece. So, I will gladly send you the entire set, 110 Pieces, on 30 days' Free Trial. The picture above shows, in reduced size, the attractive initial design. This design is in 7 harmoniously blended colors and gold. SUPREME QUALITY. Only the very best materials are used in the manufacture of these dishes. Extreme care is taken in all of the different operations. Everything that high class materials, manufacturing skill, art and design can do, has been done to make this beautiful Dinnerware a Remarkable Bargain. All of the decorations; the initial, the wreath, the scroll of roses in natural colors, the gold edge, and the inner line of orange, are absolutely put on to stay. We guarantee against breakage in shipment. Each piece is wrapped separately in tissue paper.

Former Price \$44.75.

Special Sale Price \$29.95

Easy Monthly Payments

This dinner set formerly sold for \$44.75 and without the Free Table Cloth and Napkins. You would have been satisfied to pay this price for the High Quality and Exquisite Design alone. To these points of excellence I have added these additional attractive features: The exclusiveness of your own initial on every piece; the glorious, cheerful, lavish beauty of Seven colors and Gold in the decorations; the outstanding and distinctively handsome big, wide, bright, gold handles. I have also added a daintily colored floral spray which is opposite the initial design on each and every piece. I want to send you the complete set, 110 pieces, on 30 Days' Free Trial. I want you to use the dinnerware as if it were your own. If your satisfaction is not complete, return the set. I will refund your first payment and all freight charges. The trial will not cost you a penny.



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Spear
of Pittsburgh

Be careful to state the initial you desire.
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**FREE Table Cloth and Six
Napkins** If you will send your order QUICKLY, I will send you Absolutely Free a Table Cloth and 6 Napkins. These articles are made of High Class Full Bleached Satin Finish Cotton Damask. The design is very attractive and the Set is of an unusually good quality. The table cloth is attractively hemstitched. It is bigger and of a better quality than is usually found in similar sets; it measures 58 x 69 inches—a very practical size and shape for any style of table. The napkins are hemstitched to match the table cloth and are also larger than usual; they measure 17 1/2 x 17 1/2 in.

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Send me the 110-piece Initial Dinner Set, also the Free Table Cloth and 6 Napkins, I enclose \$1.00 first payment. It is understood that if at the end of the 30 days' trial I am satisfied, I will send you \$2.50 Monthly. Order No. SA2920. Price \$29.95. Terms: \$1 with order, \$2.50 Monthly. Title remains with you until paid in full. Send me your Big Free Catalog also.

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