

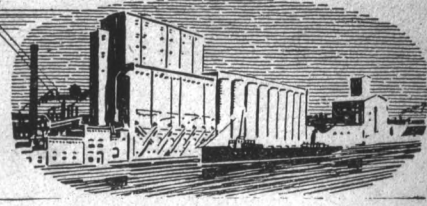
VOL. XV, No. 16

APRIL 14, 1928

The Michigan BUSINESS FARMER



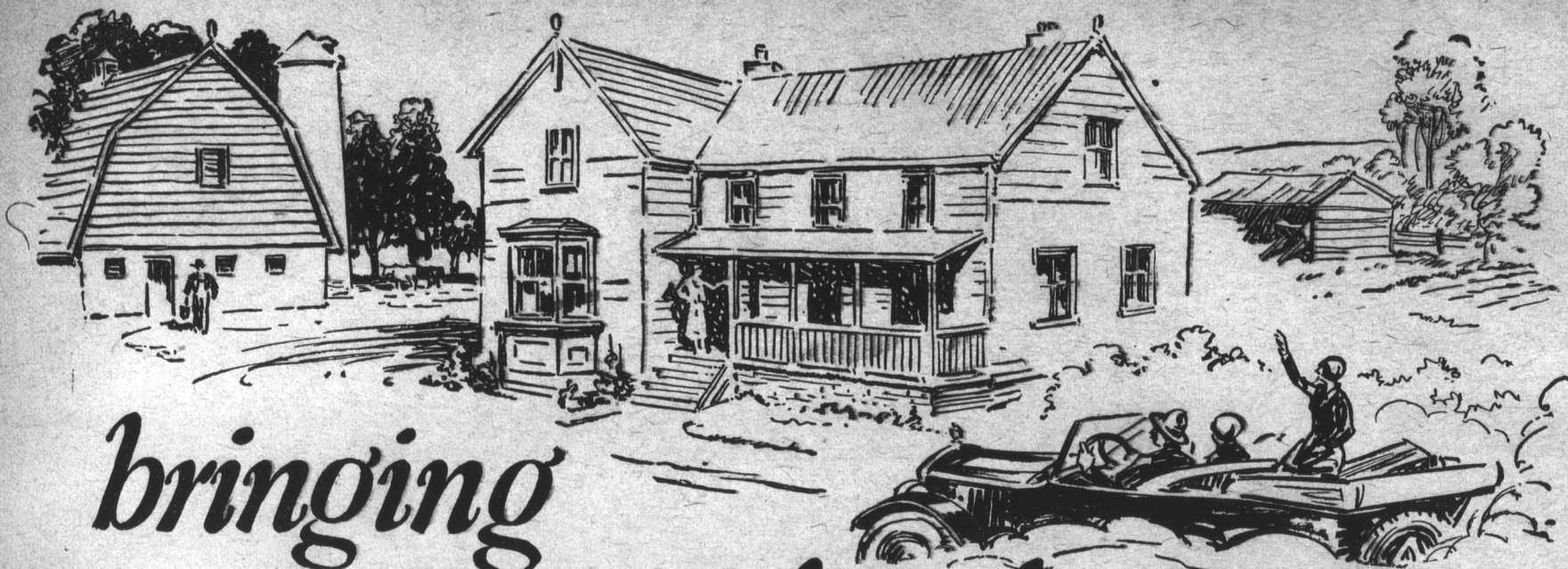
*An Independent
Farm Magazine Owned and
Edited in Michigan*



The Business Farmer's Emblem of Honor

"By the rude bridge that arched the flood,
Their flag to April's breeze unfurled.
Here once the embattled farmers stood,
And fired the shot heard round the world."

**Complete Plans for organizing Your Neighbor-
hood appear on page 3 in this issue**



bringing nation-wide advantages to the farm-house!

TWENTY-SIX YEARS AGO this month—when this nation-wide retail business was founded by Mr. J. C. Penney—a trip to town meant starting before daylight and arriving back home after dark. In countless instances, the distance was too great for even the long day's trip.

Today the automobile and good roads have changed it into a pleasure spin of a few hours. Gone are the inconveniences of shopping of yesteryears. Gone with the Indian, the scythe, the square piano and the bad roads.

The radio, the automobile and the newspaper are fast making the City and Country one—not only in space, but in needs and desires. Today the family in the farmhouse demand the same up-to-the-minute styles, the same variety to choose from, the same quality and savings, the same advantages of personal selection as their City Cousins.

The J. C. Penney Company Department Stores, located in nearly 1,000 cities and towns over the United States, are supplying this demand in a most satisfactory way. Fast trains thundering

across a continent, carry the styles of New York and the best manufactured goods of the World's markets to the Main Streets of the Nation, placing them in our Stores within easy reach of the most remote homes.

These Examples of Thrift

—assure Quality-Value in all
J. C. Penney Company Stores.

Marathon Hats

—for men. Our feature hat at.....\$3.98

Waverly Caps

For Men, at.....\$1.98
For Boys, at.....98c

Jaciel—Exquisite Toiletries

For refined and particular women, exclusive with our Stores.....19c to 98c

Two of Our Famous Footwear Values

4702—Women's Four-Button Patent or Kid Low Shoes, at.....\$3.98
734—Men's Gun Metal or Tan Oxfords, solid leather sole, at.....\$4.98

Millinery Modes of the Moment

Chic Hats for Women.....\$2.98, \$3.98, \$4.98

Our May White Goods Presentation

Table Linens, Sheets, Pillow Cases, Spreads and Towels. Splendid values at our Thrifty Low Prices.

Drive to the nearest town where there is a J. C. Penney Company Store and see for yourself if we cannot save you money on Dry Goods, Clothing, Furnishings and Shoes—everything needed by man, woman and child.

Purchases in carload lots and by the thousands of dozen for our many Stores enable us to give you prices that save you money. Look at the quality of our goods, too, for it is Quality alone that determines whether the price is economical.

"Millions of Customers and All of Them Friends" isn't merely a slogan in our Stores, it's the result of 26 years of giving helpful, conscientious Service. We shall strive to be increasingly worthy of your confidence. Make our Store your headquarters when in town.

Our Spring Store News Catalog Is Filled with Such Economies as Are Seldom Found. Write for Your Copy.

J.C. PENNEY CO.
A NATION-WIDE INSTITUTION
"quality—always at a saving"

Men Under 35 Years, Experienced in Selling Our Lines Are Wanted to Train for Co-partner Store Managers. Write for Details.

Home Offices: 330 West 34th Street, New York City—40 Stores in Michigan, as Follows—

Adrian
Albion
Allegan
Alma
Alpena
Battle Creek
Benton Harbor

Big Rapids
Cadillac
Calumet
Caro
Cheboygan
Coldwater
Crystal Falls

Escanaba
Hillsdale
Holland
Houghton
Ionia
Iron Mountain
Iron River

Ironwood
Ishpeming
Kalamazoo
Lapeer
Ludington
Manistee
Manistique

Marquette
Monroe
Muskegon
Niles
Owosso
Petoskey
Port Huron

Saginaw
St. Johns
Sault Ste. Marie
Sturgis
Traverse City

THE ONLY
FARM MAGAZINE
OWNED AND
EDITED IN
MICHIGAN

Published Bi-Weekly at
Mt. Clemens, Michigan

"How to the line, let the chips fall where they may"

The Michigan BUSINESS FARMER

Title Registered U. S. Patent Office

SATURDAY, APRIL 14, 1928

GEORGE M. SLOCUM
Publisher

MILON GRINNELL
Editor

Entered as 2nd class matter,
Aug. 22, 1917, at Mt. Clemens,
Mich., under act Mar. 3, 1879.

The Minute Man Project Is A Huge Success!

THAT widow lady with the two children toilfully trying to keep her little brood together and depending for their sustenance on her eggs and poultry, will rest a little easier—

—that old farmer who wrested his farm from the forest when he came as a pioneer into the heart of Michigan's wilderness, may be relieved of one worry—

—your own wife and children will have less cause for anxiety if you are detained past dark

BECAUSE—

—within three months' time we predict every neighborhood, in every township, in every county, in the State of Michigan, will be bristling with organized Minute Men alert and ready to defend the lives and property of their neighbors.

From every corner of the State have come letters and even telephone calls advising us of our readers'

Motto: "Alert!"

Purpose: To protect the lives and property of farm families.

Pledge: "Pledging my allegiance, first to the United States of America, I promise to stand ready, at any time, to give my full services for the lawful protection of the lives or property of any neighboring farmer or his family within a radius of twenty-five miles from my own home, so help me God!"

Obligation: Only to live up to the pledge made, to the best of your ability and without any further promise of recompense.

Organization: Strictly volunteered service from male members of farm families.

Qualifications: Any able-bodied male citizen of the United States, residing on a farm and making his livelihood from farming, not less than 21, nor more than 70 years of age.

Requirement: Every person desiring to become a member of the Minute Men, must sign the above pledge which is deposited in the files of THE MICHIGAN BUSINESS FARMER, Mount Clemens, Michigan, whereupon this publication will issue an identification card, properly numbered, and an emblem which can be worn only by a member. Both the card and the emblem are the property of THE MICHIGAN BUSINESS FARMER and are loaned to the member only for so long a period as he shall remain true to the pledge given.

Dues: None.

Correspondence: All letters regarding this organization must be addressed to: The Minute Men, Care of THE MICHIGAN BUSINESS FARMER, Mount Clemens, Michigan.

There are no dues expected from the Minute Men. The only contribution its member will make of any name or nature, will be the ten cent registration fee which will cover only part of the cost of the emblem, identification card, and necessary postage. THE MICHIGAN BUSINESS FARMER will assume all expenses in connection with the organization of the Minute Men, over and above this small registration fee, at least for the first year.

You Should Act Promptly

It is obvious that our readers are going to respond to this announcement in such numbers that it may require a delay in getting out the necessary application cards, so we beseech, in advance, your patience. We will work day and night to get the application cards mailed to you, and later to get the emblems and identification cards

made out, but the task is a great one. It will be a case of first come, first served, in every instance, with no favor-

Officials Indorse Movement

SPACE permits us to quote only a few of the letters we have received from every section of the State from different sheriffs and prosecuting attorneys.

"In reply to your letter of the 8th, beg to advise I am very much interested in protection to farmers and anything I can do to further the same, I will be very glad to do.

"In view of the fact that the writer has a farm of his own, he would be glad to receive one of your metal signs for posting on the farm."—Jerome S. Borden, Sheriff, Kalamazoo County.

Sheriff Chas. I. Gaylord, Cheboygan County, writes: "I will do anything that my office can do to protect the farmers of our county. Outline what you want done or what you are thinking of doing."

Undersheriff F. E. Meyers, Gladwin County, makes the following constructive suggestion: "Your letter regarding organization of the Minute Men, received, I think this will be a good proposition and would suggest that you appoint three men in each township to be approved and deputized by the sheriff of the county and they should be armed, and should be under supervision of the sheriff. I believe the plan suggested is a wise one and that you should be commended for taking an interest in defending and protecting farmers."

"Anything that I can do to assist you will be cheerfully done."—John A. Stewart, Prosecuting Attorney, County of Iosco.

A. L. Sayles, Prosecuting Attorney, Luce County, writes: "This answers your circular entitled 'Minute Men Again Organized.' You may consider me ready to help in every way possible."

willingness to organize the Minute Men in their neighborhoods.

Evidently no greater demand was ever felt than for a protection over and above that offered by the old system. Prosecuting attorneys and sheriffs have told us that they will cooperate to the limit. That they are ready and willing to deputize a few of the Minute Men in each neighborhood to give them the necessary authority for making arrests.

50,000 Emblems Ordered

So spontaneous has been the response that we have not hesitated in placing our order with one of the largest makers of emblems in the country for 50,000 buttons in two colors, bearing the emblem which

every male between the ages of 21 and 70 residing on a farm in this state, will want to wear.

These buttons are being rushed for delivery and should be in our hands by the time this issue is read by our more than 100,000 readers in the State of Michigan.

In addition to the emblem, an identification card, bearing the name of each member of the Minute Men, will be made out on receipt of the application card.

Plan of Organization

It is hoped that one or two in each township will take the leadership in organizing the Minute Men in their locality. The coupon at the bottom of this page is inserted for the purpose of allowing our friends who are willing to secure the co-operation of their neighbors to order the necessary number of application cards.

This application will call for the age, weight, height, color of hair and eyes, and some other necessary information, from each proposed Minute Man.

Registration Fee

These applications are to be returned with a registration fee of ten cents each, whereupon the identification cards and emblems will be sent to our reader who organizes the local group and will be distributed by him.

Hundreds of Farmers Join Up

LITERALLY hundreds of letters have been received from farmers. We wish to quote just a few to show you how this movement is going like wild fire throughout the State.

"I have been special deputy game warden for 14 months. My record of arresting and convicting 7 cases of law violations. I was 21 last winter, weighing 185 pounds and 6 feet tall. I strictly volunteer to do all as required for a Minute Man."—Willard E. Hoskins, Algoma, Mich.

"Am sending for application blanks and information of 'The Minute Men.' Your paper beats them all."—Earl Hewitt, Fyre, Mich.

"As a long and steady subscriber of The Business Farmer, I must say they are doing more than their part to try and protect the farmer, and must say I am more than willing to do my part at any time, day or night, so kindly send me an identification card and emblem, and I can get plenty more men to join me."—L. J. Bosaw, Milford, Mich.

"Will you please send me particulars of the 'Minute Men' of how to take the pledge and where, and also if possible at home. Send me 75 or 100 blanks to take in members."—John Gerren, Clare, Mich.

"I have signed the Pledge and I want to become a member of the Minute Men. I am 21 years old. Please send me the emblem soon."—Frank Manchik, Lenox, Mich.

itism shown. We will send out the applications in regular order as received.

Representatives of THE MICHIGAN BUSINESS FARMER acting for the Minute Men will, as rapidly as possible, call on all sheriffs and prosecuting attorneys in the State, advising them of this plan and urging that a sufficient number of members be deputized to make the project hogtight.

Please Re-Apply

To the large number of folks who have already written us for application blanks we wish to ask that they re-apply, using the form given here, because we need the information requested to keep our files complete. A few gave the information but not in the form needed as we published no regular blank, so please send in this blank even though you have already applied.



ORGANIZATION APPLICATION

The Minute Men,
Michigan Business Farmer,
Mt. Clemens, Mich.

Friends:—I will help to organize

..... Township

Please send me..... Application Blanks to

Name.....

Post Office..... R. No.....

County..... State.....

Profit and Happiness Are Found with Poultry

A Live Hen Bought from a Neighbor for Sunday Dinner Changed F. J. Eichelberger's Future

By E. Q. GRABILL

"It was on a Wednesday, back in the fall of 1916, that my wife bought a live hen from a neighbor, for our Sunday dinner," said F. J. Eichelberger, of Farmington, Michigan. "She put the hen out in a little 4x4 coop that was in our back yard. The next day that hen laid an egg and on Friday another egg. So, when Saturday came, my wife said we wouldn't kill the hen until she stopped laying.

"Well, that hen laid five eggs the next week. The wife felt sorry for the hen as it seemed so lonesome all by itself, so we bought 17 more Leghorns to keep her company. I made the house a little larger, and they sure did lay. We were fortunate in getting hens that were good layers, I guess.

"We had a sick friend in Detroit and gave her a dozen fresh eggs. Then she wanted to buy them every week. She told her friends and they also bought our eggs, because it was so hard to get good, fresh eggs then. We candled each egg, to be sure none having blood spots were sold, and no egg over three days old went to these customers. My wife kept a record of how many eggs she sold, and the cost of the feed, and our profit for one month on 18 hens was \$19.00. Eggs were then 75c a dozen.

"That sort of opened my eyes. I was tired anyway of the job I had working in a store and I figured that if I had a thousand hens, and could make a dollar profit on each hen per month, that would be some money! So I took a correspondence course in poultry work, and that was my beginning in poultry raising and egg production."

That is the way in which Mr. Eichelberger told how he happened to get interested and began raising chickens, the start of his success. Like many others similarly situated he did not see any great future in the store job he had back in 1916. He wasn't exactly happy in it. Yet we might not be writing of his interesting and profitable experience, had that hen not laid her egg, thus saving herself from the Sunday kettle.

"Soon after that," continued Mr. Eichelberger, "I built a hen house,

20x60 feet in size. Then I bought 1000 baby chicks in April and had good luck raising them. And they laid well that first year for us. But my dreams of the extra large profits, like I had made before on the 18 hens, did not quite come true.

Bought Five-Acre Farm

"My lot wasn't big enough, so we bought this five acre farm, going in debt for it. I liked the location because it was near enough to Detroit

best birds, they have developed a very high laying strain of birds.

Later on Mr. Eichelberger realized it would be more economical to hatch his own chicks, instead of buying them, since he needed so many to furnish him with the required number of layers. His first incubator was of the mammoth type, with a 3200 egg capacity. After taking care of his own requirements he had chicks to sell, thus increasing



Mr. E. J. Eichelberger, of Farmington, has a very fine, modern poultry house and his flock shows its appreciation by laying plenty of eggs. Of course the house is far from everything needed to get eggs but it does help put lots of them in the nest.

to have the advantage of the city market for eggs. As we were going into the poultry business in earnest, to make good if possible, we decided to give the place a name by which it might become known, and called it Oakland Hills Poultry Farm.

"The first house we put up out here was 20x150 feet, to house a good number of layers, as egg production was our first aim. We bought the best foundation stock of a pure English strain of White Leghorns, known for their large production." It is on this stock that Oakland Hills Poultry Farm has built a very successful business. Through selection and breeding from their

his income. Each year he has increased his hatchery capacity.

"Our old customers," he said, "bought chicks of us year after year, because they laid so well. There is no place where quality pays better than when it comes to the chicken business. The consumers like good, fresh eggs, and farmers know it pays to buy good chicks from a good laying strain."

A little over four years ago the poultry house was destroyed by fire. It was of the baffle front type, and had not given entire satisfaction, there being some trouble from moisture. It was also hard to hold the temperature in anything like a satis-

factory manner, as the inside temperature followed rather closely that of out-of-doors.

Builds Shed Type House

When it came to planning for the new house Mr. Eichelberger decided to build a closed house, of the shed roof type. It was built with tile, and an insulated cement floor and an insulated ceiling, to help hold in the heat from the birds, and to keep a more even temperature in the house. This house has now been in use a little over four years. A modern ventilating system was installed.

Mr. Eichelberger believes that the right kind of housing and care is very important in poultry success. "Our poultry house," he says, "is perfectly ventilated. We have no trouble from moisture. There are no chickens with colds. It does not freeze in the house, even in the cold weather. The hens are always happy and working. We have running water piped to the house and that saves considerable time, as well as making sure the birds have all the water they need all the time. Many poultrymen fail in that one thing. We have everything arranged so caring for our laying hens will be convenient.

He houses 1100 hens and pullets during the laying season. Last year his birds, for ten months of the year, averaged from 55 to 68 per cent production. The best production was in the time of the year, when egg prices are high. The eggs are sold to hospitals and to private trade. No one has ever been asked to buy eggs from this farm. But one customer has told another, and folks drive out and ask for the eggs. There is no trouble and no expense in selling them.

Wife Is Real Partner

Mrs. Eichelberger helps a good deal with the hatchery end of the business, and likes it. She takes pleasure in helping turn out beautiful, round, fluffy chicks. She likes to handle them. In fact she is a real partner in the entire program at Oakland Hills.

The layers are fed a commercial buttermilk egg-mash. Mr. Eichelberger says he used to mix his own, (Continued on Page 36)

How a Widow Farms 140 Acres

By G. PEARL DARR

death the following year. Then the girl's brother, who had also spent many years on the farm, returned to take the girl's place.

The place is gradually being seeded to alfalfa. About ten acres is in two apple orchards. One orchard is the oldest in this section, about 50 years, and is still bearing vigorously, several Greening trees bearing at various times 35 bushels to the tree. A large part of the orchard is in Grimes Golden, a splendid commercial orchard variety. A large part of the younger orchard is in Waggoners.

Mrs. Timmerman believes in diversified farming and keeps cows and poultry to keep up the fertility of the soil.

A well kept vineyard of Concord Grapes bring in profitable returns every year, while a beautiful orchard of 60 dwarf pear trees is a feature of the place. It came into bearing when three years old and has never failed to bring from \$100.00 to \$200.00 yearly.

Past 68 Years

Though past 68 years of age she is here, there, and everywhere on the farm not only superintending the Indians' work but helping to harvest and sow with her own hands. There are few days that she did not put in 16 hours a day and accomplishes more than many women half her age. When told that she works too hard for a woman of her age, she replies that "It isn't work that kills people but worry and trouble that lack of work entails."

Several years ago she had in ten

acres of Golden Bantam sweet corn for a factory and with the help of the two Indians pulled every bit of the corn and loaded it upon the wagons to be ready for the factory trucks.

That year, finding that the wheat ground was not properly prepared, she picked up stone from the field and loaded it upon a wagon, while the man harrowed.

Injured Hip

On July 3, 1926, she injured her hip while driving a team, on a hay fork while unloading hay. She was forced to go to bed until March, 1927. She suffered acutely from the injury, but continued to give directions about the farm work the entire time.

In March 1927, still suffering but without the aid of crutches, she began to hobble about, slowly at first but enough so she could supervise the running of the farm, which was beginning to show the absence of her capable hands. Though she could not walk far, she was driven about the fields by means of horse and buggy.

Pruning, spraying and cultivating again was started in her orchards, with the result that, while many orchards had no fruit in 1927, she harvested a splendid crop of nearly every variety of apples, while the pear orchard was loaded.

Though still unable to walk very much, taking a man to drive her truck, she secured top prices for her fruit in several nearby towns.

Having no time to put in potatoes, she went with the truck to sections



Mrs. Minerva Timmerman, who owns and operates a 140 acre farm in Mason county, can not be referred to as one of the "weaker sex," because she, with the assistance of two Indians, does a better job than many a man.

BECAUSE farm help is hard to get Mrs. Minerva Timmerman, widow, has successfully farmed 140 acres along with only the help of two Indians for nearly nine years.

For several years her only assistance was an Indian and his step-daughter who has been on the farm for twenty-five years. Then the girl who had contracted tuberculosis while spending a year with Indians, became unable to work and went to bed in July. Mrs. Timmerman not only continued to carry on her work but nursed the sick girl until her



Although the farm work takes up most of her time, Mrs. Timmerman's home does not show any lack of care.

30 and 40 miles north of her home and bought several loads at reasonable prices directly from the fields.

Though she has reared six children, they are scattered from Honolulu to Washington and other sections and though they would like her to move to the city, where she might live at ease, she declares she has worked and planned for thirty-two years upon this farm to get the home she wants and intends, "To die in harness, in the home she loves."

New Home

For many years the family lived in a small house, but 18 years ago built the one in which Mrs. Timmerman now lives. A carpenter did the work on the outside, but Mr. and Mrs. Timmerman and daughter did most of the finishing of the oak and maple interior. Oak flooring was bought in the rough and after being brought from the mill, to which it was sent, was carefully finished by the family. The small library has oak beams and two beautiful oak doors with glass knobs are especially attractive.

Last fall Mrs. Timmerman made many repairs on her barns and roofs and is making many plans for this year's farm work.

THRU OUR HOME FOLKS' KODAKS



"COME ON, I'LL RUN YOU A RACE!"—Robert F. Clark, son of Mr. and Mrs. Glen Clark, of Saginaw county, challenges you to a race. That smile on his face indicates he is quite confident of his ability to win.



TWO YOUNG FARMERS.—"This is a picture of our two young farmers in our backyard," writes Mrs. Charles Bishop, of Cheboygan county. Perhaps they are planning about all the work they are going to do when they get to be big men like papa.



THE BEST OF FRIENDS.—Mrs. Charles Boyer, of Eaton county, sent us this picture of Helen and Phil Savage. She says they are saying, "Do not think us old fashioned because we wear curls and love our pet horse."



BONITA BLOSS.—Bonita is the daughter of Mr. and Mrs. Milton Bloss, Monroe county.



A BIT OLD FASHIONED.—Mrs. George Trees, Clare county, sends us this picture. It is a bit old fashioned as the up-to-date picture shows a fellow changing a tire with a crowd standing around offering advice.



MARY JANE.—Her parents are Mr. and Mrs. Robert Gulick, and they live in Gratiot county.



"OUT FOR A SPIN."—This is Clifton Willson and his "sweetie" of Antrim county, according to Mrs. Rex Petrie, who live in Charlevoix county.



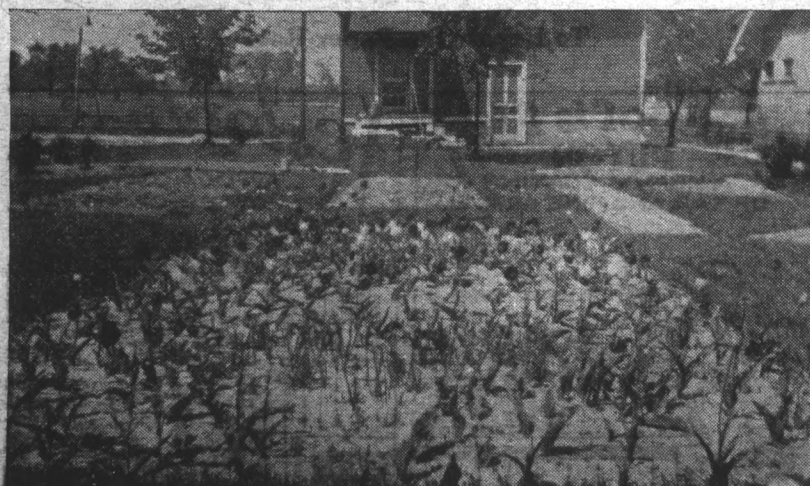
DADDY'S BIG MAN.—Marvin, small son of Mr. and Mrs. Edward Hank, of Wayne county.



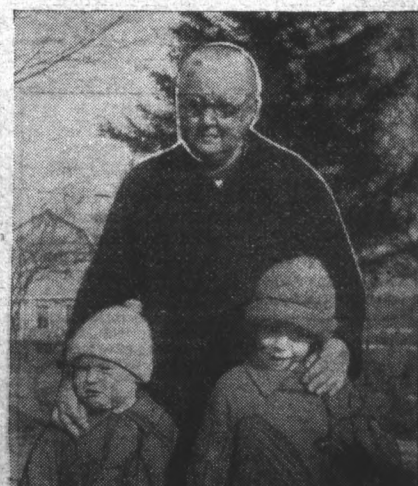
"WE PUT THE COWS IN THE BARN."—So says E. E. Twing, 3rd, and his dog, according to Mrs. E. E. Twing, Sr., wife of the agricultural agent of Mecosta county.



SWEET GIRL GRADUATES.—Irma and Iva Van Wickle, of Newaygo county, with their high school diplomas.



A NICE LOOKING BACK YARD.—It is at the home of Arthur Britten, of Oakland county. There are 1,000 flowers in the tulip bed in the foreground, and 120 other varieties in the other beds.



VISITING WITH GRANDMA.—Mrs. F. Hyde, Barry county, and her grandsons, Clarence and Merton Hoffman.

Growing 54 Bushels of Wheat to the Acre

Use Plenty of Barnyard Manure and Commercial Fertilizer is My Motto

By E. A. LUNDBERG, Eaton County

I WAS brought up on a farm near Eaton Rapids, Michigan, and, after finishing high school, I went to work at the electrical business for a few years. I left the Chicago Telephone Company in 1907 and settled down on Mrs. Lundberg's father's farm of 50 acres, where I have spent the past twenty years. The soil when turned over to me was in a high state of cultivation, the kind that didn't need any fertilizer, for it had never been robbed, but green manure had been plowed under often including rye, buckwheat, oats and clover.

The first crop of wheat I harvested was eight bushels per acre, which I considered a failure. I knew there was something lacking. We discussed commercial fertilizer in Grange, of which I had become a member and thought I'd try it out. I sent to Detroit for a ton by local freight and sowed it on 14 acres, leaving strips. The strips were a failure, but I received 30 bushels per acre on the field. I was convinced at once. The stand of clover was fine. I sowed five acres by applying the fertilizer broadcast as I didn't own a fertilizer drill, but had to go some distance to hire one. On this field I received 21 bushels per acre and had a good catch of clover, but the five acres without fertilizer were a failure this time also. I then bought a fertilizer drill and began to use fertilizer more generally. I studied what literature I could get on fertilizers and got ideas from other people and went to a fertilizer factory and saw it manufactured.

I bought some more land and now have increased from 150 acres to 256. Some of this 106 acres which I bought was badly run down. I commenced to plow under clover where it wasn't practical to draw manure on account of the distance from the barn, and to summer fallow the land. We take great pains in plowing and when a stone is in the way we remove it and turn under all trash and never sow or plant a crop without thoroughly fitting the ground. A good seed bed is easily planted and doesn't need the care.

Tile Low Spots

The first thing I try to do is to tile the low spots in the fields as our land is clay with a red clay subsoil. This enables us to get on the fields earlier in the spring than would be the case with the wet sags. It injures this Michigan land to work it wet for it gets lumpy. I have done all the heavy work with a tractor for the last ten years and find when it is too wet to work a tractor the land should not be worked, for best results. Besides, tiling does a lot toward correcting the acidity of the soil. I have put in about 500 rods of tile besides paying over \$700.00 in county drain tax, but I consider this pays for itself in a couple of years and does away with disagreeable wet sags.

I follow the practice of plowing under clover about once in two rotations of four years each. Some-

times it's for beans that are planted the middle of June and at other times for summer fallow.

On some of the fields which are over three-quarters of a mile from the barn I plow under clover or straw once in each four years. We are handicapped when plowing with horses in getting the clover plowed under in June, but with the tractor it is easily done. I might say that we worked eight horses on 150 acres, but with a tractor we keep five light horses and the same hired help on 256 acres. The fifth horse is seldom worked. I keep 40 head of registered Holstein-Friesian cattle, about 15 being milkers, and 25 registered Oxford sheep. No hogs as I don't like hogs and have found I can live without them.

Manure Hauled Direct to Field

The manure is drawn direct to the field in winter. We try to cover all our corn ground in this way but as soon as the ground gets soft we leave it in the barnyard, as I won't let anyone cut ruts in the fields, which does more harm to our soil than the manure can bring back. The rest of the manure is left until we get the summer-fallow plowed, which we do in June. Then we use the tractor

and the manure spreader and top-dress as far as it will go.

I raised 93 bushels of oats per acre after plowing under corn stubble. I always plow under my corn stubble in the fall if possible, plowing up the clover sod and manure that had been plowed under for corn and also getting some benefit of the commercial fertilizer from the application on the corn and sowing 125 pounds of 16 per cent superphosphate.

Fitting Wheat Field

The yield of 54 bushels of wheat to the acre on 7½ acres was obtained by plowing under clover that was sown for that purpose. I have never bought any clover seed but always raise my own. This field the Canada thistles persisted in getting in. We spread a straw stack on most of it in the spring and had some job to plow under. My son, Harvey, 13 years old, operated the tractor and I would follow the plow to keep the straw going under, then followed with a roller and drag and then top-dressed it with barnyard manure which cleaned out the barnyard, and then dragged it during the summer, at least once each week.

The day after Labor Day we

drilled the wheat at the rate of 1¾ bushels per acre and 200 pounds 16 per cent superphosphate. I wouldn't advise anyone to use 16 per cent superphosphate unless they had a clay soil with plenty of organic matter such as this field had. The 16 per cent phosphate did the best work. The average yield for Michigan in 1927 was 21.5 bushels; our field made 54 bushels.

I averaged 43 bushels per acre on 40 acres of wheat. But in the field after oats, without manure, I used a complete fertilizer—a 2-12-2. I would have had a larger average, but I made the mistake of using 16 per cent superphosphate on a ten-acre field after beans, where, if I had used one with high potash as a 2-12-6, I would have raised the average considerable. This field was low in organic matter. Clover will be plowed under this year in this field.

Buy Proper Grade

By continuous experimenting, I found out that the fertilizer companies don't manufacture the different grades of fertilizer just to sell them, but to supply something for our individual needs. It would be a waste of money to buy 16 per cent superphosphate if we needed a complete fertilizer. You can sell some farmers any kind of fertilizer, as they depend largely on the agent's judgment and sometimes he will sell the one he gets the largest commission on. I wouldn't buy a cheap fertilizer just because it is a cheap one, if the land needed a higher grade.

I am growing legume crops to feed and plow under. Some of the newly acquired land had been robbed for years and never had a pay crop, but by plowing under clover and using commercial fertilizer, I actually had 44 bushels of wheat per acre on seven acres of this land and now I have put it in sweet clover to plow under this summer and will soon be able to raise any crop on it at a profit. Land with plenty of organic matter is easier to work, and I don't have the weeds to contend with when plowing under green manure that I do in barnyard manure.

Always Uses Fertilizer

I wouldn't plant a crop of grain without using fertilizer as it costs too much to get the ground ready and we have to pay for the fertilizer if we don't use it by a reduced production, which I find is rather expensive after going to all the other expense. We, therefore, cannot afford to sow a crop without the use of commercial fertilizer. I am beginning to use phosphate in the barn with the manure. I have used commercial fertilizer the past nineteen years.

There is nothing as encouraging to me as to see a bumper crop growing. It does more to stimulate a farmer when he gets the blues, besides helping when the taxes are due.

I am in the farming game to make money, besides a living, as well as being back to nature. It is an independent life, but we must not be

(Continued on Page 36)

An Outstanding 4-H Club Member

ONE of the outstanding boys in club work in Michigan is Clarence Merchant, of Tuscola county, a boy 16 years old who started with a pure bred calf four years ago. I say outstanding because he has produced two grand champions in two years. He was a typical farm boy yet not unusually interested in the farm. His first calf seemed to tie him up with the barn work and very soon another calf was purchased. The first calf was Michigan champion Holstein heifer in 1926 at Michigan State Fair in competition with good calves from many counties in the State. She was bred to a bull whose dam produced 1273 pounds of butter in one year and gave birth to

a fine heifer calf. His second calf carried off championship honors in 1927 at Michigan State Fair. She was unusually smooth, typy, well fitted two year old but lacked udder development when shown. She dropped a fine bull calf January 18, 1928, and since then has been on test. Her milk record for eight weeks following freshening is as follows: 1st week average, 40.5 lbs.; 2nd week average, 44.2 lbs.; 3rd week average, 46.6 lbs.; 4th week average, 47.6 lbs.; 5th week average, 50.9 lbs.; 6th week average, 52.8 lbs.; 7th week average, 53.3 lbs.; 8th week average, 53.5 lbs. She is milked three times daily and her milk tests 4.1.—Willis Campbell.



Clarence Merchant, of Tuscola county, with his grand champion females and their calves. The four animals are valued at \$1,000.

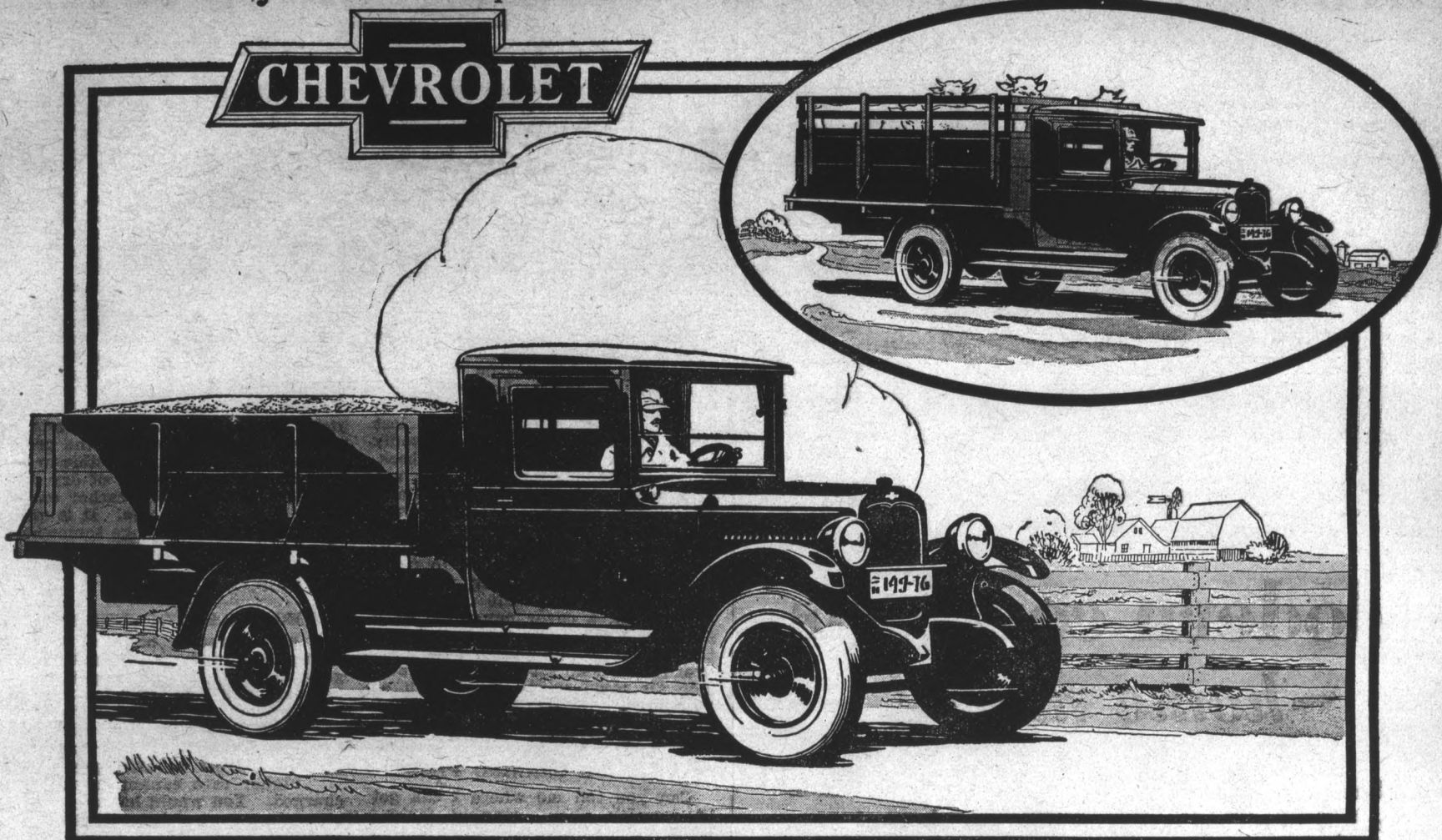
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To Repair the Paper Roof

By Ray Inman



for Economical Transportation

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If the Chevrolet Truck had been designed expressly for use on the farm, it could not provide in more abundant measure those qualities of sturdiness, endurance and economy that are so necessary in a farm truck.

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Your Chevrolet dealer can provide a body type exactly suited to your requirements. See him today—and arrange for a trial-load demonstration.

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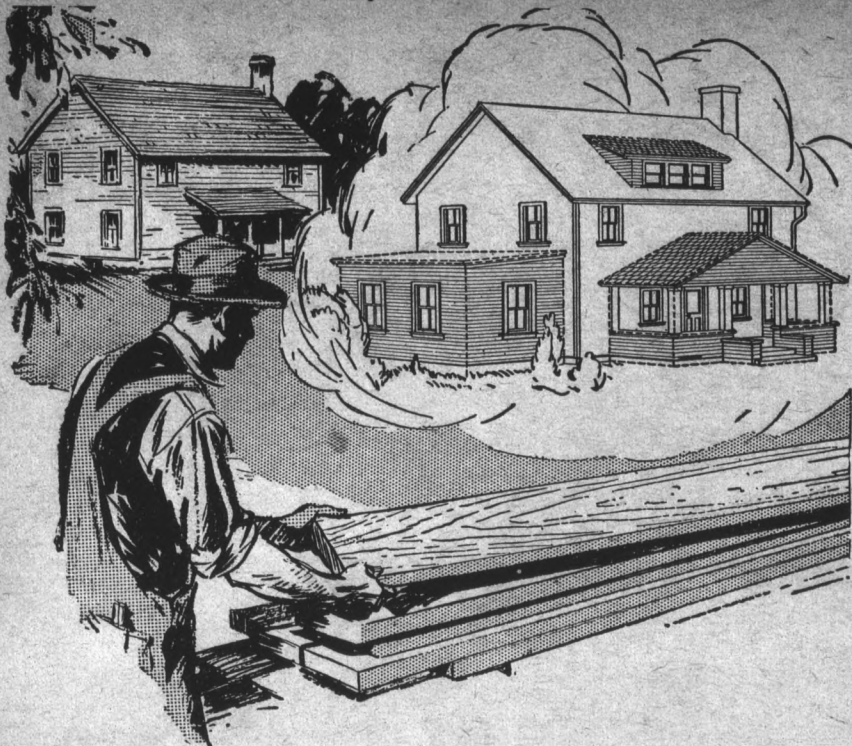
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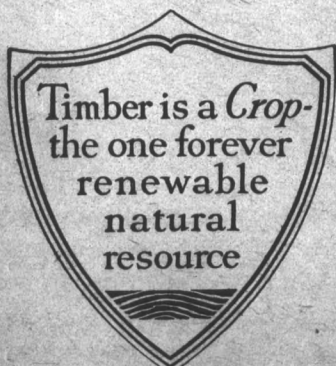
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Farmers Service Bureau

(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.)

DO NOT FEED HONEY TO BEES

I have some honey that I bought to feed my bees as they did not make enough. The people put it in a copper boiler. It was in this container about six weeks so the other day I took the comb out and there are 6 quarts of extract honey. Now I am wondering if this honey is safe for the bees and if there will be more than they can eat. Would it be alright for table use?—A. S., Dryden, Mich.

WE never advise beekeepers to feed honey to their bees for the simple reason that one can never be sure the honey concerned is free from the germs of foul-brood. Many beekeepers have lost many dollars by feeding supposedly disease-free honey to their bees. Therefore, I suggest that you use this honey for a table sweet and should the bees need feeding, suggest that you make a syrup of equal parts of sugar and water brought to a boil and allowed to cool to room temperature before being fed in a pepper-box feeder made of a syrup pail having a cover punctured with 50 or 100 small shingle-nail holes, the feeder being inverted directly over the bees on a day when the outside air temperature is as high as 70 degrees.—R. H. Kely, Asst. Prof. of Entomology, M. S. C.

GROWING CANNING PEAS

Can you tell me where I can get information about canning factory peas? What would be a fair yield on a good clay loam soil in Presque Isle county? When are they sown, when harvested, and how much seed per acre?—O. B., Millersburg, Mich.

It is quite possible to grow satisfactory crops of canner varieties of peas for seed if conditions are favorable. The best soil for this purpose is a clay loam which is retentive of moisture.

About 55% of the peas which are canned are of the Alaska variety. This pea has a smooth seed and like all smooth seeded peas it is comparatively hardy and may be planted very early in the season. In fact it may be planted as soon as the ground is in condition to work, probably some time in early April. The seed is drilled with an ordinary grain drill at the rate of 3 bushel per acre. They should be planted at a fair depth, 2 to 3 inches, in order to get them down into good moist soil. It is quite likely that an application of two to four hundred pounds per acre of a fertilizer which runs high in phosphorus will be well worth the expense of buying and applying. The peas some time develop so as to reach canning maturity in about 65 days from the time in which the seed is sown. They remain in can-

ning condition for a very short period after which they mature very rapidly so that they should be ready for harvest in possibly 80 days from the time the seed is sown. It is well to harvest these before they have reached the dead ripe condition for they will make better seed if they are cut a trifle on the green side and if left until fully mature it is likely that many of the seeds will become lost through shattering of the pods.

It is customary to harvest a crop using an ordinary mowing machine with cutter bar equipped with lifters and bunchers very much the same as the canner harvests the green crop for canning. It is somewhat difficult to predict just what the yield may be for so much depends on weather conditions during the growing period. It is quite possible to get a yield of a ton or more of dry seed per acre but this is a rather exceptional crop in this state. It is quite likely the crop will range somewhere between 1,000 and 2,000 pounds per acre.—Geo. E. Starr, Assoc. Prof. of Horticulture, M. S. C.

LEGAL RATE OF INTEREST

I have owed a bank a sum of money borrowed on a chattle mortgage and they have charged me 12 per cent and sometimes as high as 24 per cent. Is that lawful?—Member of M. B. F., Twining, Mich.

Seven per cent is the legal rate of interest in Michigan and a higher rate cannot lawfully be charged. You would have a right to recover amount of interest paid over the legal rate.—Legal Editor.

SHOULD PARTICIPATE IN INCOME

A man rented a farm. The man who owned the farm furnishes everything and the second party gets one-third. If the owner buys two heifers to grow into cows, would the second party get one-third of the gain off the cows? As the landlord bought two heifers and one cost \$39.00 and the other one \$29.00, these two heifers are now worth \$100.00 apiece. The one we fed seven months and the other we fed two years before they came in.—E. J., Pottersville, Mich.

Under the conditions you state, the tenant would participate in the income of the heifers from the beginning of the lease. This could be handled in two ways: First, through a difference in the inventory value at the beginning and end of the leasing period. Second, through the tenant buying his share of heifers at the outside. The latter plan is the more fair, in that it relieves the landlord from carrying the full investment. Such cases as you state should be definitely agreed upon at the outset of the lease period.—Legal Editor.

Where Our Readers Live

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



The farm home of Mr. and Mrs. Chas. Button, in Grand Traverse county.



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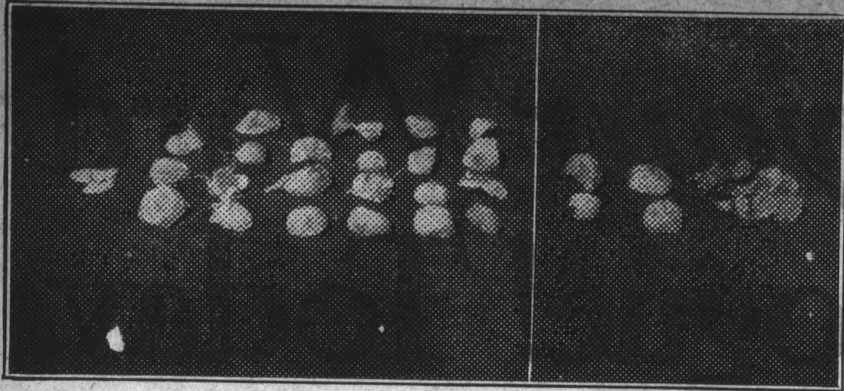
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Seed treated with DIPDUST
23 Sound—2 Decayed

Same seed treated with
corrosive sublimate
4 Sound—21 Decayed

Which Seed Will Produce the Most Potatoes?

Compare the results of the new Instantaneous Dip—DIPDUST—with the old-fashioned "two-hour soak" treatment. Above is a photograph taken on the farm of A. Schlechtweg, Freehold, N. J.

While vines were still green, 25 consecutive DIPDUST and corrosive sublimate treated hills were dug. Dipdust hills had 23 sound and only 2 decayed seed pieces. Corrosive sublimate hills had only 4 sound and 21 decayed seed pieces.

DIPDUST is much more effective than the old-fashioned ways of treating seed potatoes. Besides, you can treat your seed potatoes as fast as you can scoop them up. Just dip them in Dipdust solution and out again and your seed is all ready to plant. One man can easily treat from 200 to 400 bushels of potatoes per day.

There is not the slightest danger of injuring the sprouts or even cut seed. DIPDUST controls surface-borne diseases, such as Rhizoctonia, scab and black-leg, and protects cut surfaces from seed rotting organisms in the soil. It insures sturdy profitable plants that will increase your yield from 15 to 25 bushels per acre.

After one trial of DIPDUST you will never again waste time with a "two-hour soak" treatment or spend two weeks worrying about your stand.

Read These Results of Actual Field Tests:

FRED BRUNNER, JR., Cranbury, N. J. "The DIPDUST potatoes came up very even with very few misses, whereas the undipped potatoes came up very uneven, and with many a miss. . . . As many as 33 diseased plants (black-leg) were found to a single row, whereas the DIPDUST seed showed only 15 plants in a whole 14-acre patch of Prince Edward Island seed potatoes. The difference was so apparent at all times that dealers and growers visited the farm very frequently."

HARRY O. DICKEY, Elk River, Minn. "It was easy to see the difference between the treated and untreated parts of the field during the growing season (Early Ohio seed potatoes). The DIPDUST treated plants came up better and appeared healthier and sturdier than the untreated plants. At digging time, I compared the yields and found that the DIPDUST treated rows ran 165 bushels while the untreated rows gave me only 140 bushels per acre."

GUARANTEE

Plant a few acres of DIPDUST treated seed in alternate rows with untreated seed. If, at digging time, you are not satisfied, return the empty DIPDUST can to us and we will refund price paid.

One pound treats 15 to 20 bushels of seed potatoes.

Treat your Corn and Vegetable Seeds too

You can now also disinfect your seed corn and vegetable seeds with DIPDUST and increase your yield by preventing many of the diseases which cause poor germination, weak, spindly plants, and poor quality crop. Simply use as a dust treatment. It is easily and quickly applied and costs but a few cents per acre. One pound of DIPDUST will treat six bushels of seed corn, or from six to eight bushels of vegetable seed.

The Bayer Company, Inc., Agricultural Dept., 117 Hudson Street, New York, N. Y.

DIPDUST

4 ounces - 50 cents
1 pound - \$1.75
5 pounds - \$8.00

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Clement's White Cap Yellow Dent, Picketts Yellow Dent and Michigan Yellow Dent (a very early dent). Certified Worthy Oats and Sweet Clover Seed.

Why take a chance on common seed when our scientific method of drying and preparing our corn insures germination and vigor. Write for Circular and Sample.

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BARNETT LIGHTNING RODS

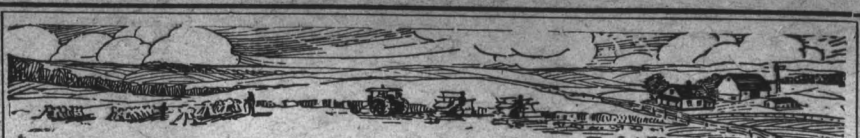
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Broadscope Farm News and Views

Edited by L. W. MEEKS, Hillsdale County

(Many people write for Mr. Meeks' advice on different problems and he is always glad to give them the benefit of his wide experience without charge. Address him care of M. B. F. and you will receive a personal reply by early mail if you are a paid-up subscriber.)

The Questions Eternal

THERE seem to be three questions which may properly be called the "Questions Eternal" for farmers. Every week one, and sometimes several letters, come to me, asking one of these questions.



L. W. Meeks

Some inquirers seem to think their individual problem is different than that of any other farmer, but they are not. In general, all farmers have the same perplexities. Here is a sample letter on Mr. Quack Grass. It seems this farmer has been harboring Mr. Quack about as long as he feels he wants to, and is inquiring how best to kill him.

"Please will you give me the best means of killing quack grass. I have forty acres of quack that has not been plowed in ten years. I want to plow it this spring. What would be best to seed it with?"—C. M., Harrisville.

I'll say in the beginning that all you farmers who know how to kill out quack, can now turn to the market page and read that, for you won't be interested in reading for the steenth time how I advise the death penalty to be administered to Friend and Foe—Mr. Quack. Yes, I have known farms and seasons when quack grass was really a friend, in pasture and hayfields. It never was in a grain field or truck crop. Mr. C. M. has endured, or possibly enjoyed quack for ten years in one forty-acre field, and I advise him to put up with it again this year until around August first or a little later. Then plow the field very shallow and be sure to plow a furrow narrow enough to entirely cut off the slice. Quack, at this time of year, has exhausted its stored up energy which the roots contained in the spring and this is why spring plowing will not kill it out. Now you have it plowed, get your disk harrow and disk it good and proper. Watch it closely and when green shoots begin to appear take your spring tooth drag and get busy. Better leave your drag right there in the field and every time you see a green shoot show itself get the drag in operation at once. Keep this up until winter comes and next spring plow the field and put it into some cultivated crop.

You will no doubt be lonesome for a while, when working this cultivated crop—Mr. Quack will, in all probability, be gone. But cheer up, you will soon become accustomed to his absence and eventually you will feel paid for your effort in driving him away.

Another man wants to plow his quack grass field this spring and then work it until August and seed to alfalfa. His chances are very small if he expects to kill out the quack grass by this method. It might be done, but it is almost impossible to kill quack grass roots during the forepart of the summer. They are so full of vigor in the spring and early summer, by August they have become exhausted and are quite easily discouraged.

What Is Value of Manure?

A subscriber at Birch Run wants to know what the value of a load of manure is. That question's proper answer is, "more or less." Loads vary in weight. Manure varies in plant food elements. Fresh stable manure is worth more than leached yard manure, etc. But the figures as given by Mr. W. W. Weir, of the University of Wisconsin, shows a ton of average mixed yard manure contains approximately ten pounds of nitrogen, two pounds of phosphorus and eight pounds of potassium. When nitrogen is fifteen cents a pound, phosphorus eight cents and potassium eight cents, one ton of such manure has an intrinsic fertilizing value of two dollars and thirty-four cents. But at best such figures are not very reliable. They do show however that manure is very valuable, and its value is greater than plant food analysis show it to be. For manure is of great benefit to soil as it adds organic matter or humus and develops a bacteria which is a wonderful help to plant growth.

In a recent issue Mr. Braun was telling what it cost to keep horses per year. Then what it would cost to keep a tractor to do the work the horses did. His figures showed the tractor would be the cheapest power to farm with. Granting this is true by the figures he gives, let's be honest with the dear old horses and give them credit with the by-product, manure. We have five horses on Broadscope Farm and I'm telling you if you want to buy all the manure they will produce this next year and remove it from the farm you will have to write a much larger check than you think.

In the Ohio Station, average yard



CALLED MICHIGAN'S BEST COUNTY AGENTS

The winners of the two cups awarded for outstanding accomplishments by county agricultural agents in the lower peninsula in 1927 were Roy E. Decker, (left), Jackson county, and Carl Knopf, of Muskegon county. Mr. Decker graduated from M. S. C. in 1915 and began work as an agricultural agent in Eaton county in 1919. After two years he transferred to Jackson county where he has remained for the past seven years. Mr. Knopf graduated from M. S. C. in 1911 and has served 11 years as agent in Cheboygan, Manistee and Muskegon counties. The cups were given by the assistant county agricultural agent leaders, Roswell Carr and Clinton Ballard, who determine the winners with the assistance of the specialists at M. S. C.

manure was put on a piece of rather medium ground. It was carefully checked with a similar piece that had no manure, and corn, oats, wheat, clover and timothy were grown. Eight tons of manure were applied to the acre—four to corn and four to wheat. The test showed the manure had produced crops enough over and above the check plot to give the manure a value of \$4.69 per ton!

If you will refer back to the analysis of manure just given, you will note it shows manure is low in phosphorus and quite high in nitrogen and potash. This only goes to prove that manure should be balanced by adding phosphorus—twenty percent superphosphate can be purchased for about \$31.00 per ton and from two hundred to four hundred pounds per acre, applied with manure will give most excellent results.

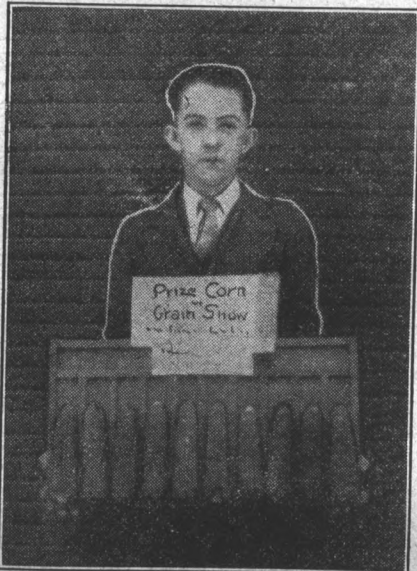
Now, don't say the Broadscope man is knocking the tractor. He believes the tractor has a place on many farms and many farmers are making a mistake in not owning one, but when comparing cost of tractor, and cost of horse power, I am going to give Prince, Queen, June, Belle and Dan credit for a by-product which I value highly, and while many uses can be found for old crank case oil, it isn't very valuable at that!

Bulletin Service

(The bulletins listed under this heading are free. Some are issued by the U. S. Department of Agriculture, others by agricultural colleges, and many by our advertisers. We carefully consider the bulletins that come to us from different sources and list those which, in our opinion, are of greatest value to our readers. If you want a copy of one or more just list them on a postal card or in a letter and mail to us with your name and address. They will be sent to you without charges of any kind.)

- No. 2.—MODERN WATER SUPPLY.
- No. 3.—SOIL FERTILIZERS.
- No. 4.—SEED CORN CURING.
- No. 5.—GOSPEL OF GOOD FEEDING.
- No. 6.—BEFORE YOU INVEST.
- No. 7.—FARM SANITATION.
- No. 8.—FIRST MORTGAGE BONDS.
- No. 9.—FROM EGG TO MARKET.
- No. 11.—MINERALS AND FEEDING.
- No. 12.—LINSEED OIL MEAL.
- No. 13.—FIGHT THE CORN BORER.
- No. 14.—UNDER-GRADE APPLES.
- No. 16.—TIRE CARE.
- No. 17.—FARMERS' TAX GUIDE.
- No. 18.—BARN AND HOW TO BUILD.
- No. 19.—CONCRETE BUILDINGS.
- No. 20.—MOTHS AND BEETLES.
- No. 21.—FEEDING FOR EGGS.
- No. 22.—CHICK CARE AND FEEDING.
- No. 23.—BETTER GRAINS AND HAY.
- No. 24.—100 FOODS FROM 4 RECIPES.
- No. 25.—FARM LEASE SYSTEMS.
- No. 26.—ORCHARD MANAGEMENT.
- No. 27.—RASPBERRY PLANTATION.
- No. 28.—POULTRY FEEDING SECRETS.
- No. 29.—FLIES IN DWELLINGS.
- No. 30.—MORE MONEY FROM COWS.
- No. 33.—CULLING FARM FLOCK.
- No. 34.—POTATO GROWING.
- No. 35.—PROFITABLE ORCHARDS.
- No. 36.—TRACTOR LUBRICATION.
- No. 37.—MODERN POULTRY HOUSES.
- No. 38.—POULTRY, SWINE DISEASES.

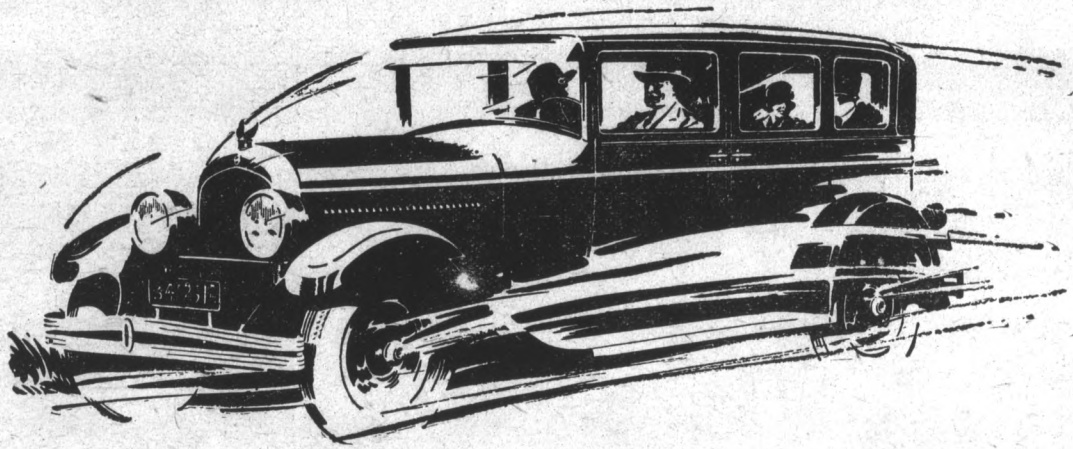
Bulletin No. 39.—AUTOMOBILE LUBRICATION. Within the forty-four pages of this booklet there is a fund of information of great value to anyone who owns an automobile.



A CORN GROWING CHAMPION

George Leach a student in the agricultural classes at the Marshall high school, who was winner in the Ten Ear sample of Yellow Dent corn, in the class open to Smith-Hughes schools, at the show held at Michigan State College during Farmers' Week last winter. George's agricultural teacher, D. H. Stark, says he is a very enthusiastic young farmer.

First comes CHRYSLER "72"



...all others trail

Chrysler "72" performance makes all other performance in its field seem as out-of-date as last year's license plates. All you have to do is to ride in a "72," and drive it to appreciate the difference.

Only Chrysler's great engineering staff and precision manufacturing organization — only Chrysler Standardized Quality — could have produced such performance results.

Only Chrysler engineers could have developed 75 h. p. from an engine of such moderate size, insuring economy and long life, as well as extraordinary power.

You can, at will, do 72 miles an

hour and more — smooth, easy miles—due to this vibrationless engine with counterweighted seven-bearing crankshaft.

It takes mountain grades at constant acceleration. In traffic, the "72" flashes to the fore with characteristic Chrysler get-away.

The safety and simplicity of Chrysler's self-equalizing hydraulic four-wheel brakes insure positive braking on all four wheels at one time and make Chrysler brakes surer.

Go to any Chrysler salesroom and ask for a "72" demonstration. Drive the car where and as you will. Demonstration will prove to you just how much better the "72" performs.

Illustrious New Chrysler "72" — Two-passenger Coupe (with rumble seat), \$1545; Royal Sedan, \$1595; Sport Roadster (with rumble seat), \$1595; Four-passenger Coupe, \$1595; Town Sedan, \$1695; Convertible Coupe (with rumble seat), \$1745; Crown Sedan, \$1795. All prices f. o. b. Detroit, subject to current Federal excise tax. Chrysler dealers are in position to extend the convenience of time payments.

New Chrysler "Red-Head" Engine—designed to take full advantage of high-compression gas, giving 12% greater torque with greater speed, power and hill-climbing ability; standard equipment on all body models of the 112 h. p. Imperial "80," also standard on the roadsters, and available at slight extra cost for other body types, of the "62" and "72."

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What the Neighbors Say

(We are always pleased to receive letters from our subscribers and gladly publish those on subjects of general interest. If you agree or do not agree with what is written and published in this department write your views and send them in. The editor is sole judge as to whether letters are suitable for publication or not.)

GAS TAX IS FAIR

DEAR EDITOR:—In regard to Gas tax, I think it all O. K., and the only fair proposition there is, as a farmer does not get as much chance to use the roads, especially in this northern section. I do not believe in the permanent plates. I think plates ought to be put out at cost once a year on account of out-laws and the plates get pretty rusty looking at the end of the year.—E. M., Copemish, Mich.

FARM RELIEF

DEAR EDITOR: I have several matters I desire to discuss through the columns of your valuable farm paper. First, I am very much in favor of your fight against the thief, but while we are concentrating our minds on this fellow let us not forget some of the big fellows who, under the guard of the unjust laws, are taking right before our eyes and in day light more than any bunch of criminal thieves in the world possibly can.

First there is the unfair law which compels 25 per cent of the wealth producing property to pay 85 per cent of the taxes. This system continually worked will eventually confiscate the farms and the homes. We must have a different tax system or young people will have no desire to own homes and farms.

Second, we will have to be very careful about whom we elect to represent us in our legislative halls. The men who get there today do not seem to be the men who stand upon principles and will fight regardless of whom it will hit until truth does triumph. They seem after election to spend their time organizing rings and blocks, they barter and trade for power from favored money interests to assist them in holding their job and when they are not making themselves secure they are out selecting our candidates for our higher offices which our primary system is supposed to do. What we need today is men of the Roosevelt type, men who are big through and through and not so much on this soft pedal stuff.

Third, I wish to call attention to the Michigan State Banking Commission which is appointed by the Governor. This commission is supposed to operate for the good of the people of the State and I think it generally does. But just at this time there is a tendency on the part of State banks to call loans. This, I am informed, is being pushed by the commission, especially with farmer and country banks where loans have been renewed from time to time, regardless as to whether the security is good or not. This policy pushed too hard has a tendency to lower the value of farms as it forces them on the market, and a tendency to lower farm prices, especially where a surplus must be dumped on an over-supplied market.

Right here I wish to ask why the name of the Governor of the State of Michigan appears on posters tacked up in many Michigan elevators advising farmers to sell beans at \$5.00 per hundred, recommending that as a fair price, when beans are now selling at \$9.00 per hundred. Are we coming back to the Hooverized conditions where the farmers' wheat price of \$3.00 per bushel was set at \$2.20? Are not such things as this just what makes it necessary for this farm relief legislation? I say, let us have less of these farm relief measures and the farm relief problem will take care of itself.

If this position taken by the banking commission is well grounded and not politics it proves that the breaking down of Michigan agriculture has started in earnest and must be taken into consideration or the institution of the farm home owned individually will soon be a thing of the past.

You may perhaps ask what are banks doing with the money collected in on their called loans? Letting it pile up in the vaults or reinvesting it in farm ventures? I do not think so. When the surplus gets to a cer-

tain point the commission orders the investment and this money is promptly reinvested in bonds and securities approved by the securities commission, another political organization which I think, perhaps, is unduly influenced in okaying securities that show merit purely for the reason that they are enjoying special legislative favors and economic conditions, which places industry and cities in a favorable position economically and agriculture at a disadvantage. Therefore, for the time being, farms are an uncertain and an undesirable investment for banks on account of the loans becoming frozen because the farmer cannot meet his taxes, interest and various other war expenses from nearly pre-war prices of his produce.

Fourth, this condition of agriculture long continued makes a feeding ground for a vulture not much better than a thief, namely a money lender who makes short time loans at a rate of interest stated on the paper, 7 per cent, plus discounts of from 10 to 50 per cent besides a cash bonus.

The remedy is simple. First, unite politically on a man for president that is known to be for and will insist on a square deal for agriculture. Elect no man to congress unless he has similar qualities. Get a tariff that will protect agriculture and the farm worker, just as much as industry and the industrial worker, or if this cannot be done then lower the tariff on industry and let down the immigration bars. Organize farmer banks and farm marketing corporations and stop depending on listening to professional politicians. Get rid of the government paid farm experts as leaders and farm organization managers. Cut out unnecessary and extravagant buying. Stop over-producing for an over-supplied market. Don't plow up all your farm. Keep at least one half seeded down. Keep a set of books that show gains and losses as well as resources and liabilities,

FARMERS' FRIEND

DEAR EDITOR:—Your fight against thieves and fraud and your attitude during the Wilson case proves you are the farmers' true friend.—J. E. Slightly, Benzie County.

then close them once each year. Don't be wheedled into buying by these super high-powered salesmen who make you believe you can be made rich quick. Look out for the easy payment plan, the chances are in the end two prices are paid.

Get into politics, you are still in the majority, for although farmers have decreased three million in the last twenty years 60 per cent of the people of this country depend directly on agriculture and most of the rest indirectly and the voters of the country will vote with you as their interests and yours are one. Before you vote a tax on your property be sure it will not confiscate it.

Write your congressman to insist on a larger tariff on sugar. You know that you cannot raise beets for \$7.00 per ton and pay these high labor and fertilizer costs on the average tonnage per acre or gross receipts for \$35.00 to \$56.00 per acre when it will cost you on the average of \$65.00 per acre to produce the crop. Michigan sugar stock is on the market at 1½ and our 17 sugar factories are liable to lay idle this year. Congress can do much for Michigan by placing an adequate tariff on sugar.

The present high prices of beans will no doubt in the end produce a surplus but since there was no surplus last year on account of damage to the crop by weather and also a very short crop this year on account of dry weather and with the world going in for a big navy program there must be a big surplus built up before very low prices on beans will come again. Therefore, beans will no doubt be a very good bet for farmers this next year and a quick cash crop. The working of the bean

market shows conclusively what a crop shortage or a surplus under certain conditions will do to the market. The people and the government are interested in the farmers producing a surplus of all crops to carry over in case of crop failure or extreme demand on account of war or extraordinary navy demands like in the present case. In case there is a surplus the government should step in and handle a certain amount of such surplus and not allow it to be used as a football by the interests to batter down the price of not only the surplus but the entire crop to such a low level that farmers receive nothing for their wages and nothing for their capital invested.

Farmers and business men of rural towns and cities of the State of Michigan, let us rouse ourselves into action, let us all write our congressmen and senators to get behind the McNary-Haugen bill which will soon be up and insist that they pass the bill. As organized farmers let us call our local organization together and go over these matters together, pass the resolutions necessary and send them down to congress.—C. E. Ackerman, Ex-Mgr., Michigan Sugar Beet Growers Association, Durand, Mich.

SENDS M. B. F. TO A FRIEND

DEAR EDITOR:—I have been a subscriber to your paper for nine years and expect to be a subscriber as long as it is published. I think every farmer in the State should take THE BUSINESS FARMER, for the few cents it costs, compared to the good it is trying to do for the farmer; trying to save his chickens and produce, besides all the good information it gives us otherwise. I am going to ask you to send a friend your paper for three months with my compliments, and send the bill to me, that is, if he is not already a subscriber.—L. J. B., Milford, Mich.

MUSINGS OF A PLAIN FARMER

By A. P. BALLARD

MY anxiety is increasing every hour. This P. M. I was in a state of great agitation, straining my eyes for a glimpse of our two daughters returning from high school.

We live on a sponge road and this season of the year the culverts are out, sink holes are numerous and it's a constant strain on my already overburdened mentality.

While doing the evening chores I lined up the whole department of highways in the feed room and gave them a sound, constructive lecture on road building.

Just as I was about to fire the whole bunch for insubordination and neglect of duty I heard the roaring motor of old "47" coming into the yard. Dropping my silage fork I rushed to the garage just as the girls were closing the door.

"How did you get along?" says I.

"Fine," said they in chorus. "We didn't have to use our low gear until we got into our own yard."

"Well—," said I, and returned to the stable, much cowed. However, I still have a grievance against the road builders.

While chastising these imaginary engineers I neglected to replenish the bed for the three sucklings. At milking time Mrs. B. discovered it.

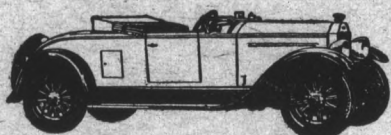
"Why didn't you give the calves fresh straw?" said she.

"I was building roads," said I meekly. And she gave me a lecture which made me feel like a coxcomb. And I vowed that should I be compelled to endure another such a calling down I would change the whole scheme of my nature and be a heartless woman hater.

MAKING AND SPENDING

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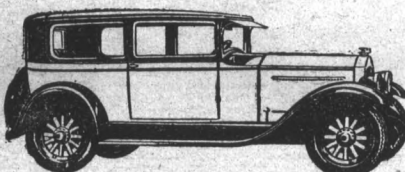
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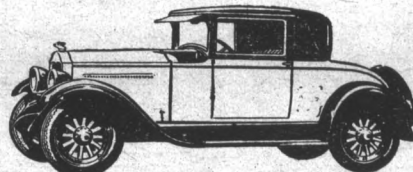
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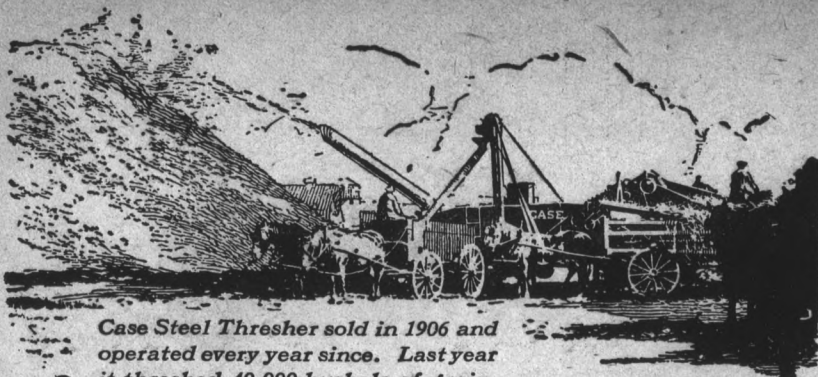
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Do You Know You Are Saved?

A NON-SECTARIAN SERMON BY

Rev. David E. Warner

(If there is any questions regarding religious matters you would like answered write to Rev. Warner and he will be pleased to serve you without charge. A personal reply will be sent to you if you are a paid-up subscriber.)

TEXT: "These things have I written unto you that ye may know that ye have eternal life." 1 John 5:18.

DO you know the "know" book? Are you acquainted with its message? The word "know" which is found in our text, occurs in John's first epistle very frequently. This is significant. It excites our curiosity. But more; it challenges serious inquiry. What is it we should know?

"These things." Summarized, they are, that "God is Light" and to be saved is to walk in this light. One's interpretation of salvation depends upon one's understanding of the essential nature of God. In three words, John has simply and adequately told it. Does this mean physical light? Certainly. The light in the burning match, the evening lamp, the electric bulb, as well as the sun above; all these are from God. Says Warren H. Wilson in his recent book, "For the round of life that passes through our bodies and makes them a temple of the Holy Spirit, passes through the orchard trees, the garden plants, the cattle in the stalls, and the sheep in the fold. If they were not there we could not glorify God, for we could not live." Reverent science is doing much to reveal this light that rays out from a provident Creator. Always, our eyes are being dazzled in its beams and all creation is being saved through it. "And the earth was waste and void; and darkness was upon the face of the deep; * * * And God said, let there be light; and there was light."

But the sacred writer would emphasize the moral nature of God; His passionate love and spotless purity. In this connection, he says that "in Him is no darkness at all." This has its practical meaning in the fact that the light of God has been fully revealed in Christ, and therefore, there is no excuse for spiritual ignorance. In Christ, God is perfect and self-giving light. This is the center of the apostle's message, and he speaks from experience. He had met the Christ aforetime and had had fellowship with him. He declares, "That which we have seen and heard we declare unto you also that ye also may have fellowship with us." So, if the message of the author seems mystical, he is now about to make it practical. The logical procedure is, first knowledge, then action, and finally character. To know what God is like is to be saved if we act upon it. But, alas, what failure in action! Enlightenment alone can not save. We must walk in the light. And this involves confession of sin.

Therefore hearken! "If we say we have no sin, we deceive ourselves, and the truth is not in us." Now none of us wants to be deceived or go astray; so what is the truth about the sin-question? If we allow the New Testament to be the carrier of our religion, we are sinners. And if

we allow our experience to be teacher, we sin. Of course, this doctrine is unpopular with many. Just the same, every human knows the shame of loving darkness rather than light. He knows what it is to try to get away from conscience. No wandering in green meadows or absorption in business can suppress her voice. And to command her to be still is to have her strike back. Whether one calls it sin or something else, one knows those times when one does not feel at home with God. Conscience will not let one have peace in the doing of sin.

Yet, the apostle says, "We know that whosoever is begotten of God, sinneth not." Clearly so. With the life of God in the soul, one does not motive sin. One's normal, habitual intention is not to sin. But can this person apply to himself the words that Christ applied to Himself, namely, "Which of you convinceth me of sin?" No, no. We shrink from such a claim. This is offensive in the extreme. There was but one such Being. The rest of us have discovered that the more we know that God is light and the more clearly we see His image, the more shadowed our own image becomes. Travel stains do not show so much on a soiled and worn garment, but the least splash of mud makes Mary's new white dress look badly. As one's character whitens with experience, every little sin-spot bothers one greatly. Listen in at the key-hole of some old saint's room at the time of evening prayer. Now do you hear that pleading, "God be merciful to me a sinner."

But John reduces walking in the light to a social relationship. His brethren contended they were saved, but he knew they hated one another. So he cautions, "He that saith he is in the light and hateth his brother, is in the darkness until now." Do you know you are saved? Well, do you love your fellows; even your enemies? Would you do them good instead of evil? Better check up here. With great earnestness we are told that the proof of walking in the light is practical righteousness; applied Christianity. Listen at this: "But whoso hath the world's goods, and beholdeth his brother in need, and shutteth up his compassion from him, how doth the love of God abide in him?" Verily, professing righteousness is nothing; but doing righteousness is everything. What matters if we sit in the front pews and join lustily in "The Old Rugged Cross?" This Cross is so virile in its demand for character and conduct that it cuts its way through any emotional gush to where it can purify every detail of personal living and all the social relationships of life.

Now, how may we know we may have eternal life? Not by observing creeds, learning catechisms, or any other external transactions. Whatever place such institutions have in the Christian system, the author of



A VALUABLE LOAD

There are 104 bushels of clover seed on this load and it sold for \$1,302. The seed was raised on Clover Leaf Stock Farm in Missaukee county, owned and operated by A. L. Davis and son. The Davises were formerly farmers in Barry county, moving on to an eighty in Missaukee county in 1905. They purchased the farm from a homesteader who had but five acres cleared and have kept adding to their farm and clearing off land until they now own 664 acres of which 260 are under cultivation. They have a little over a hundred head of cattle, eighty sheep and twelve horses. Mr. Davis writes, "We sure like M. B. F. and Missaukee county."

our text seems almost oblivious to them. He knows that they cannot reach a trouble that is within. And we must know this. We must recognize that there is something in our fundamental nature that disturbs our relationship with God. It is sin. And to know it is to hate it; to revolt against it; and to desire its opposite which is righteousness. At this point we are given help. We reach this new state through the advocacy of Christ. "If any man sin, we have an Advocate with the Father." He who is trying to walk in the light, has Christ by his side. He will make mistakes. Yet there is something in the constancy of this Divine companionship that is so real and searching as to find the sin-spots in our nature, and keep us worshipping and enjoying the God of light. How do you know you are saved? Are you trying to appease God through rites and ceremonies? The apostle says that we are saved when we let the light of God play around the roots of our heart day by day.

FARM MECHANICS

PUT DOWN DRIVE WELL

I want to know how to put down a drive well using 1 1/4 inch pipe and driving it without a well machine. Please tell me how to do it. Also, how can I tell where to drive the well and get plenty of water?—R. B., Mayville, Mich.

YOU should buy what is called the drive point. To this screw a short length of 1 1/4 inch pipe on which you can use a heavy maul. To protect the pipe while driving on it, a short length of pipe coupling should be screwed on to the piece which is being driven. Care should be taken that the pipe is threaded to a sufficient length to protect. Let the two pieces of pipe come together in the middle of the coupling since the more threads which go into the coupling the greater will be the drive that it will resist. A drive head made of steel so constructed that the end of the pipe when screwed into the head comes against the shoulder may be purchased. The top of the drive head is thicker than ordinary coupling but if made of steel will stand much more driving without battering. As soon as one length of pipe is driven down, another four to six foot length of pipe may be added and the driving continued. It is usually not advisable to attempt to drive a well much deeper than about thirty feet.

There is not any known method for determining where water may be found. A divining rod which consists of a peach sprout or a wild cherry sprout or something of the kind when carried loosely in the hand is thought by some to tip down in places where water may be found. But this usually is due to some unconscious movement on the part of the person carrying the twig. Practically any place in Michigan water may be procured by driving or drilling at a greater or lesser depth. The best indication of the depth at which you can get water would be to inquire of several of the neighbors to find out the depth at which they found it necessary to go to get water.

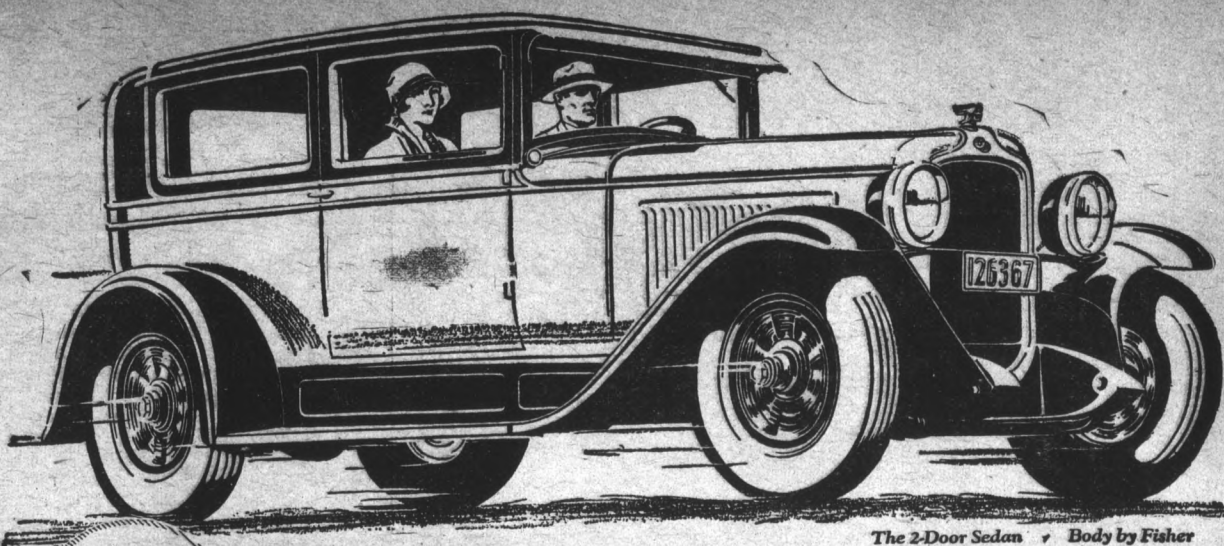
Select for a well the spot which would be most convenient for your pump. If you should strike a rock or for any other reason should fail to get water at this place, move a few feet to another spot and drive again.—F. E. Fogle, Assistant Professor, Agricultural Engineering, Michigan State College.

Legume crops used as green manure increases production.



MARRIED 55 YEARS

Mr. and Mrs. Joe Lowery, of Oakland county, recently celebrated their fifty-fifth wedding anniversary with a happy family gathering. Mr. Lowery is a spry "young" man of eighty while his wife is seventy-five. They have three children, nine grandchildren and three great-grandchildren.



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WRITE TODAY

Fruit and Orchard

Edited by HERBERT NAFZIGER, Berrien County

(Mr. Nafziger will be pleased to answer your questions regarding the fruit and orchard. There is no charge for this service if your subscription is paid in advance and you will receive a personal reply by mail.)

DID CURIOSITY ONCE KILL A CAT?

AH, yes, said the Bostonese, tradition has it that a superabundance of curiosity has been known to cause the untimely demise of an overinquisitive feline. However this may be we know of at least one case where curiosity, instead of killing anything, merely proved a point.



Herbert Nafziger

The person who was moved by curiosity in this case was Mr. H. S. Newton, of Hart, Michigan, President of the State Horticultural Society. He wondered whether there was anything to all this sudden interest in apple pollination or whether it was all a brainstorm brought on by a buzzing in the upper story. So he proceeded to put on a little experiment of his own on his own farm. In a block of McIntosh apples all of which blossomed full, Mr. Newton singled out a typical tree which he enclosed in a cage designed to keep out all bees. During the blossoming period Mr. Newton walked through the orchard occasionally to observe bee activity, but could detect practically none. This led him to believe that the performance of the trees outside of the cage would be the same as on the one which was inside. After the blossoming and fruit-setting period was over, however, the tree which had been caged bore only six lop-sided apples while the other trees in the orchard had a good crop. It was very evident that the bees had been there, and Mr. Newton's curiosity was satisfied.

THE NEW ENGLAND SEVEN

THE New England States have picked out a list of seven standard apple varieties which they called the "New England Seven." These varieties are being recommended as a preferred list and as being best suited to that region. They are McIntosh, Baldwin, Delicious, Wealthy, Gravenstein, R. I. Greening, and Northern Spy.

YES, WE HAVE TOO MANY BANANAS

HERE are two interesting quotations from the agricultural outlook report of the U. S. Bureau of Agricultural Economics. "Production of most fruits and melons has reached a point where it is difficult to market these crops at satisfactory prices in years when weather conditions are favorable for good yields." . . . "Imported fruits, especially bananas, are an important factor in market supplies. The quantity of bananas brought into this

country annually has increased steadily during the last 10 years and in 1927 was 89 per cent greater than the quantity imported in 1918. The importance of bananas in our markets is indicated by the fact that for the five year period ending with 1927 carloads have approximately equalled imports of this fruit in terms of the carload apple shipments of the same period."

This leads us to believe that "farm relief" is not always as complicated as it seems. All that is needed in this case is to follow time honored precedent and slap a good stiff tariff on bananas.

PRUNING TREES

We would like to know what time of the year to prune trees and how to prune them.—P. C. L., St. Ignace, Michigan.

PRUNE your trees any time during the winter or early spring before the leaves are out. To prune bearing trees thin out the smaller branches especially in the top, to let the sunlight through the tree. Cut out dead branches if there are any, and remove twigs and small branches which rub or interfere with each other. Do not cut off large branches. Cherry trees need very little pruning, if any. Apple trees need more, but do not prune too much. Each branch should have its "place in the sun," but do not cut big holes in the bearing surface. It will only mean a lot of suckers to cut off next year.

ANTHRACNOSE AND BLIGHT

I own a fruit farm and have about three acres of red raspberries. These raspberries are getting anthracnose and I would like to have you give me information on spraying, when to spray, what to use, etc. They also have cane borers and cane blight. If you will give me information it will be very much appreciated.—R. T., Lundington, Mich.

FOR anthracnose on your red raspberries we would advise you to spray early in the spring just as the buds begin to show a little green. Use lime-sulphur solution mixed at the rate of 5 gallons of lime-sulphur to 50 gallons of water. This one spray ought to hold the disease on your reds. Later spraying is not advisable because it is very apt to burn the leaves.

For cane borer and blight cut the old canes out immediately after harvest, get them out of the patch and burn. If any blighted canes appear during the summer they had best be cut out right away. The borer has a habit of girdling the tips of the young shoots during the summer, causing these tips to wilt and die. Keep your eyes peeled for these wilted tips next summer and cut them off below the girdle and burn them. That is a "stitch in time" which gets the borer before he can do much damage.



WON CUP IN JUDGING CONTEST

The two young boys in the first row in this picture are Russel Nestel and Kenneth Bradford who made up the team that won the cup in stock judging at the Breckenridge grain show this last winter. Standing back of the boys is Floyd Ballenger, rural school teacher, and at the right is C. Marshall Lane, agricultural instructor of the Alma high school, who coached the boys.



Alert!

Conducted By
ROBERT J. McCOLGAN
Business Manager Protective Service Bureau

KENNETH B. MONTIGEL, prosecuting attorney of Gratiot county is to be commended for his activities in prosecuting chicken thieves. Prosecutor Montigel has just served public notice on all persons engaged in purchasing poultry that they must comply with the terms of Act No. 100 of the Public Acts of 1927 (Hall Bill). Failure to comply with this act Mr. Montigel states is handicapping the public officers in their endeavors to catch thieves who are causing great losses to the farmers, especially at this time of the year. After due and timely warning poultry buyers who do not comply with the terms of this act will be prosecuted in Gratiot county.

This same warning should be given out by the prosecuting attorneys and sheriffs in every county in Michigan. All M. B. F. readers should see that this law is being enforced in their own county. This law alone will save thousands of dollars for the farmers of Michigan. Why not enforce it?

Act. No. 100, which is better known as the Hall Bill, requires that poultry buyers must fill out and file a blank for all purchases of chickens. Among other things a description of the breed of the chickens is given, owner's name from whom purchased, number purchased, etc. The buyer must also secure license number of party selling him the chickens. If the party is driving a car. There are hundreds of cases where information of this kind would have enabled officers to trace the thieves and make an arrest. Without this information there is more often than not, no clue to follow. Blanks for poultry buyers are furnished free of charge by the Secretary of State at Lansing. If you have a friend who buys poultry, tip him off to comply with the Hall Bill, Act. No. 100, for arrests are going to be made in the near future of buyers who fail to purchase chickens according to law.

Those chicken thieves are clever. If they gave as much time and thought to making an honest living as they do to being crooked, they might be some of our leading captains of industry. One thief recently conceived the idea of inserting a warm rod into a chicken coop and when the chickens put their cold claws on it for the sake of its warmth, he withdrew the rod and poured the chickens into a sack. The invention worked great until the fellow was finally caught with five hundred pounds of chickens. He is now under a \$500 bond awaiting trial.

Chicken thieves in Tuscola county rubbed it in recently by robbing the hen coop of Deputy Sheriff Glen Truax of 24 chickens.

J. A. Richards, secretary of Berrien County Farm Bureau, has just issued a notice that his organization will pay a reward of \$25 for information leading to the arrest and conviction of anyone stealing from the farms of Farm Bureau members in Berrien county. That's fine business, Mr. Richards. THE BUSINESS FARMER, which started the movement to drive rural thieves out of Michigan, is only too happy to see other organizations fall in line, for the more money there is in it to fight the thieves, the greater inducement it will be to get these long fingered boys "Safe in the Arms of the County Jail."

If the rural thieves of Michigan knew how the applications for membership in BUSINESS FARMER'S "Minute Men" were rolling in, they would sure stop, look and listen. When this mighty Army of Sturdy Sons of the Soil finally gets organized with their motto of ever "Alert" before them, why look out you human parasites, for your day is doomed.

Read in another section of this issue the story of how Mrs. Wesley Taylor chased five thieves into the arms of the county sheriff. She is getting one of our \$50 rewards for her bravery.



Correctly placed lighting makes the kitchen seem like new.



Records show that the electric ironing machine saves more than two-thirds of the labor of ironing.



A small motor to replace foot power is a sensible economy.



The use of a vacuum cleaner requires only one-fifth of the effort of sweeping.



Time—Her Most Precious Asset

IT never will be very hard for any woman living on a farm to occupy her time. The duties of home-making are enough to keep any farm mother busy; and to-day, we realize that the back-breaking labor that used to make farmers' wives old before their time, never was "woman's work."

No labor-saving device has proved its value on the farm more thoroughly than the electric washing machine. At the touch of a button, little G-E motors on washers, pumps, and other devices will do many tasks while mother does something else. Hours of time—her most precious asset—are saved at the cost of a few cents for electricity.

Ask Your Power Company

If your farm is on or near an electric power line, ask the power company for a copy of the new G-E Farm Book which explains more than 100 uses for electricity on the farm.

GENERAL ELECTRIC

Hasn't a Bit of Asthma Now

Says Wheeze and Cough Entirely Gone. Tells What Did It.

For the benefit of asthma sufferers, Mr. Charles Dean, 910 1/2 Virginia Ave., Indianapolis, Ind., tells how he got rid of this stubborn disease. Mr. Dean says: "I began having asthma in 1912. Kept getting worse, and couldn't do a day's work. I would wheeze and choke and if I walked a square, I had to lean against a post and rest. In October, 1923, I began taking Nacor. Relief came very promptly, and I continued to improve, gaining 13 pounds in weight. I feel perfectly well again and Nacor is the only medicine that ever brought me relief."

Hundreds of other sufferers from asthma, bronchitis and chronic coughs have reported their recovery after years of affliction. Their letters and a booklet of valuable information about these diseases will be sent free by Nacor Medicine Co., 530 State Life Bldg., Indianapolis, Ind. No matter how serious your case, write for this free booklet. It may give your whole life a new meaning.—(Adv.)

AT YOUR SERVICE We are here to serve you to the best of our ability and we welcome your questions on all subjects. Answers are sent by first class mail. The Business Farmer, Mt. Clemens, Mich.

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SATURDAY, APRIL 14, 1928

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RELIABLE ADVERTISERS

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

"The Farm Paper of Service"

And they asked me how I did it,
 And I gave 'em the Scripture text
 "You keep your light so shining,
 A little in front o' the next!"

They copied all they could follow,
 But they couldn't copy my mind
 And I left 'em sweating and stealing
 A year and a half behind!

—Rudyard Kipling.

JOIN THE MINUTE MEN

THE announcement in our March 31st issue regarding the organizing of The Minute Men to protect the lives and property of farm families in this State brought forth a flood of letters from sheriffs, prosecuting attorneys and farmers, all highly praising the movement. All ready a large number of farmers have signified their intentions to join in the work. Many have requested authority to form an organization in their community. Some of the sheriffs have stated they were ready to deputize these Minute Men.

When THE BUSINESS FARMER started out nearly two years ago to fight rural thievery in Michigan hundreds of letters were received telling us that this work was very much appreciated by the farmers of our fair State. For some time it was a single handed uphill fight but gradually other rural organizations began to appreciate the seriousness of the situation and they too took an active part. We have sincerely appreciated any assistance in this work which we pioneered and we hope still more organizations and groups will see fit to become active along this line. Only through united efforts can we hope to drive Mr. Thief away from the farms.

Part of that united effort can come from The Minute Men who will give rural sections that police protection which they lack.

On page three of this issue is another article on the organization. We hope you will read it through and then clip the application, fill it out and mail it in right away.

IRA H. BUTTERFIELD

WITH the passing of Mr. Ira H. Butterfield Michigan agriculture lost a wonderful friend and staunch supporter. Born on a farm near the little town of Utica, Macomb county, in the year of 1840, and living most of his life close to nature he knew the problems of the farmer as only the farmer himself knows them. He early identified himself with the State agricultural society, serving as secretary, vice-president and president for a number of years. He was a member of the State Board of Agriculture for four years and later acted as a secretary of the Michigan Agricultural College. He was also secretary of the Michigan Shorthorn Cattle Breeders' Association and of the Michigan Improved Livestock Breeders. In the various positions he held in public life the ambition to serve agriculture to the best of his ability was always foremost in his plans. He probably knew more about Michigan agriculture than any man living today. But a couple of years ago he wrote a fairly complete history of the State agricultural society,

bringing out facts that were unknown to the present generation previous to that time. Last year officials of the Michigan State Fair gave public recognition to him for the fine work he did in connection with Michigan agriculture by establishing an "Ira H. Butterfield Special" in the grain show. Many of our readers perhaps knew him personally. Others knew of him through various articles which appeared in our columns, the last one he wrote for us being published last October.

The man who lives so that the world profits through his living has not lived in vain. Agriculture has much to be grateful for to Mr. Butterfield because he gave it his best.

COUZENS' FARM

A LITTLE less than two years ago Senator James Couzens announced that he was losing \$35,000 a year in operating his 774-acre estate, known as Wabeek Farms, near Pontiac, and he offered to let some good farmer operate it rent free and tax free if he could find someone who would farm it right. Thousands applied and he finally decided in favor of Mark and Frank Williamson, making a five-year agreement with them. Within the last few weeks this agreement has come to an abrupt end, the Williamson brothers have moved off and the Senator is now in sole possession of his estate.

Calamity howlers are shouting, "They failed! Even though they got the farm without rent or taxes, they found it impossible to make any money at farming!" But did they fail? The Williamsons say they did not and the Senator claims they did not succeed.

Figures show that the Williamsons cleared around \$8,000 during the eighteen months they were on the farm, while it cost Senator Couzens only \$8,000 a year in taxes and the rent he would have collected for the use of the farm, compared with \$35,000 per year when he operated it himself.

If the boys had paid rent on the farm they would have lost around \$20,000 during the period, they were there, according to estimates, which would indicate, off hand, that even on such a fine farm as Senator Couzens' with its \$125,000 cow barn and other buildings and equipment in proportion, it is impossible to make money, in fact such a report was given out to the country through the press.

The trouble with Wabeek Farms is that Senator Couzens has a show place rather than a practical farm. His buildings were put up with the thought of making them attractive instead of practical. Visitors appeared at the farm daily and wanted to be shown around, taking up the valuable time of the Williamson boys or their hired hands. Further, they were obliged to employ more help than should be necessary to operate that size farm because the fine barns and equipment were not practical.

GOING TO ENTER THE CONTEST?

DID you read about our contest on fixing up the farm home yard which was mentioned on this page in the last issue, and are you going to enter? We hope you did and you are. Be sure and get a good picture of your yard before you start to do anything with it because we will need such a picture in judging the various entries. We will give you complete details about the contest in an early issue—but in the meantime GET THAT PICTURE!

CAN YOU ADVISE HIM?

A PROFESSOR of botany in the agricultural department of one of our middle western universities wants some help from the farmers of Michigan. He writes us that hundreds of farmers throughout the Canada thistle infested area are firm in their belief that a certain date or time exists when a single cutting will eradicate the pest and he wants to know this date or time so that he can give it a trial. If you have any information on it please write in to us and we will put the information in his hands. It will all be greatly appreciated and given a trial.

LAST ISSUE OF GREAT VALUE

DEAR Mr. Grinnell: I have read The Business Farmer issue of March 31st and desire to compliment your paper on putting out such an issue. An issue of this type cannot help but be of great value to the poultrymen and the poultry industry of Michigan.

We appreciate your co-operation and assure you that you are doing a wonderful work in Michigan agriculture.—C. G. Card, Professor of Poultry Husbandry, M. S. C.



MY New York friend, he says to me, while I was fixin' up my tee, "You farmers from the Middle West, fuss round as if were possessed. When crops are good you rant and cuss because you're got a big surplus, then when the drouth or rain or hail or floods or early frosts curtail the yield, you can't keep still. You want McNary-Haugen's bill to guarantee you profits, though you may crank up the car and go a gallivantin' down the road without the corn a-bein' hoed."

"A farmer surely does complain in summer, when there's too much rain, he's got a pain in autumn, too, each time we get a heavy dew. The weather is too cold or hot, he'd rather have poor crops than not so he'll have more cause to bewail and send his congressman some mail. You may your dues to send some man to Washington, that's got a plan to pass a law to make you rich, for politics you've got an itch, you seem to think that congress should put in your crops and saw your wood." What more he'd said I do not know, I hit my ball an awful blow, and as that feller turned his back it hit his head an awful crack. He passed out cold, I'd almost bet he ain't got back his senses yet.

PETER PLOW'S PHILOSOPHY

The Cotton-Textile Institute is tryin' to get folks to use more cotton so's the cotton farmers can make more money. Recently I noticed they was advocatin' larger bed sheets. That's a good idea, I think, and right here and now I want to boost for longer tails on them cheap cotton shirts.

I understand that the King of England recently declared a half holiday and all of the business places in that country closed all afternoon. The Prince of Wales rode a horse without fallin' off.

The way them congressmen down at Washington are dodgin' the bill appropriatin' money to fight the corn borer I'm beginnin' to think they want to "worm" out of payin' farmers for cleanin' up to get rid of the worm.

I read in the paper how it cost a whole lot of money to fill the big airship, the Los Angeles, with gas 'cause it is a special kind. Ain't it too bad there ain't some way they could use the gas some of them congressmen broadcast in the "Haul of Fame" down at Washington? If they used that kind I suppose they couldn't get the airship down once they let it loose.

Credit is alright in some ways, and in other ways it ain't. Take our wars, for instance. If we had to pay in advance for them we wouldn't have very many.

Ever hear this one? Two fellers were arguin' 'bout smart men. One said, "Now take that man, Daniel Webster, who wrote the dictionary; he sure was a smart man." The other man said, "You don't mean Daniel, you mean Noah." To which the other feller said, "You can't fool me that way, 'cause I know it was Noah who built the ark."

COMING EVENTS

May 1-7.—National Egg Week.
 Oct. 30-Nov. 2.—Top o' Michigan Potato Show, Gaylord, Mich.
 Nov. 7-10.—Greenville Potato Show, Greenville, Mich.
 Nov. 14-16.—Western Michigan Potato Show, Big Rapids, Mich.

"The Business Farmer" is more than a periodical It is an Institution of Service!

The Publisher's Desk

(We are always glad to do all we can to protect our subscribers from fraudulent deals or unfair treatment from concerns at a distance. We advise on stocks and bonds, and investigate different concerns for our subscribers. This service, including a personal letter, is free when subscription is paid in advance.)

"STRETCHING" THE FACTS

L. GLOVER, "specialist" in charge, of the Scientific Height Increasing Company, of Sausalito, California, was selling a stretching machine to short folks who wanted to be tall until Uncle Sam investigated his proposition—and they denied him the use of the mail on charge of fraud. Apparently it was a very profitable business while it lasted because few short folks do not wish they were tall. But when Uncle Sam's investigators stepped in they found Mr. Glover in somewhat the same boat as the bald-headed barber who recommends a certain kind of hair tonic as a sure cure for falling hair—he was short of stature. If his stretching machine was such a success why was it that he was so short? The government could not answer the question and neither could Mr. Glover apparently, so it was decided to charge him with fraud.

It appears the machine worked mostly on people's pocketbooks and bank accounts.

DID YOU GET A HANDKERCHIEF?

"My dear friend: As I came across your name and address I decided to write to you at once. The idea struck me that if it layed in your power to be a friend to me and help me you would. And this is the favor I am going to ask of you if you would help me to dispose of some of my lovely drawn thread work which I do for my living among your friends and acquaintances and try to get them interested and to secure me an order for some as I am in great want and if I could sell my work it would help me along so greatly to provide food and clothing for myself and little ones. Do listen to my appeal and try to help me all you can. I shall enclose you a handkerchief to give you and others an idea of the kind of work it is. The price is \$1.00 do try and sell it for me. But this can give you only a slight idea of the real beauty of it, it can be done in various patterns and designs imaginable both for house use as well as personal wear. Lots of the work is sold over there by kind friends for folks here so I hope to meet in you a kind friend also. Trusting to receive soon a favorable reply from you I remain yours sincerely, Mercedes Hassell.

"If you cannot get \$1.00 I will be willing to take 75 cents or 50 cents a piece if you could sell a quantity for me."

HAVE any of you received a letter similar to the above, written on a letter head carrying the name of Mrs. Mercedes Hassell, Central Avenue, Windward Side, Saba, D. W. I." with a lady's handkerchief enclosed? We did the other day and we are wondering if we are of a "favored" few or if our "dear friend" is trying to build up a large circle of "friends" in this State.

In the first place this lady did not need to address us as "my dear friend" because we have never made her acquaintance, in fact, we do not know a single person residing in India. And in the second place we have no use for any person sending out unordered merchandise. If she wants her hankkerchief she can get

it by calling at our office any day but Sunday and we will not even charge for storage while waiting for her to call.

WARNS AGAINST FOREST RANGER CORRESPONDENCE SCHOOLS

THE United States Civil Service Commission has issued a statement citing figures which indicate the practical worthlessness of widely advertised correspondence courses in preparation for forest ranger examinations.

The Commission says that it has made a survey of the examination papers of 1081 competitors in the forest ranger examination held last October, disclosing the following results:

Of 675 competitors who had no correspondence training, 189 passed the examination.

Of 337 competitors who had taken a correspondence course in preparation for the examination, exactly 18 passed.

Sixty-nine were noncommittal as to training in advance. All of these failed.

The Commission quoted the following statement from a circular recently issued by the United States Forest Service regarding advertising of correspondence schools which give training for forest ranger examinations:

"Many of the statements in these advertisements are misleading and in some cases absolutely false. These advertisements frequently convey the impression, that the forest ranger's job is largely a play-time job, or a convenient means for an outing in the woods, while, as a matter of fact, the position of forest ranger is a permanent one of considerable responsibility, requiring arduous work often under difficult conditions, and with definite requirements as to experience and ability. Forest Service officials doubt the value of correspondence schools under ordinary circumstances in furnishing proper preparation for forest ranger positions."

THANKS

The company sent us \$2.75 in settlement of our claim for spectacles returned, allowing one dollar for the agent would make \$3.75 that we paid for them. Probably we had better let it go at that. We thank you for the kindness and interest you have taken. It isn't likely they would have paid anything back if you hadn't taken it up.—V. D. S., Ludington, Mich.

Am writing to let you know that I received a check today from the company. Many thanks as I never expected to get it. I surely like M. B. F. very much.—A. P., Cedar, Mich.

The matter has been cleared up about the company and I have received my premium. I will close thanking you very much for your trouble.—A. B., Parma, Mich.

I received settlement for claim with the company and I surely appreciate your service.—A. B. K., Manchester, Mich.

I fully intended to write you before and let you know I had secured a settlement with the company for \$12.98, the amount due me, and I wish to thank you very much for your services for I am sure that I would not have secured a settlement with them if you had not written them as they would not acknowledge any time that they had not filled the order. Again thanking you for your services, I shall always be ready to speak a good word for M. B. F.—Mrs. M. H., Olivet, Mich.

Your card received concerning the claim I had against the company. Today I received your card also a letter from them with check for \$4.50 enclosed which closes my transaction with them. Many thanks to you. Best wishes for M. B. F.—E. F. W., Coldwater, Mich.

This is to advise remittance of \$7.29 has been received from the company. A deduction of \$2.71 was made on account of damages which was O. K. Thanking you for this kind favor, I am.—Miss V. B., Charlevoix, Mich.

The company sent their check for \$17.80 in full payment of claim against them today. I thank you very much. I could not get any satisfaction out of them.—J. L. W., Zephyrhills, Florida.

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"Help! Help! not Caw! Caw!"

is the wall of the crows when once they light on a corn-field where the seed-corn has been coated with Stanley's Crow Repellent. One taste is enough. And every crow, every squirrel, every mole, every gopher, every pest of any kind, keeps off that field. It doesn't kill them, for it isn't

poisonous, but it's worse than any other "white mule" in all crow-dom. And your crow worries are over. You won't have to replant hill after hill. Much of your valuable time is saved, besides all the extra cost of seed-corn to replant with. And for every \$1.00 you spend for

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The Collection Box

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

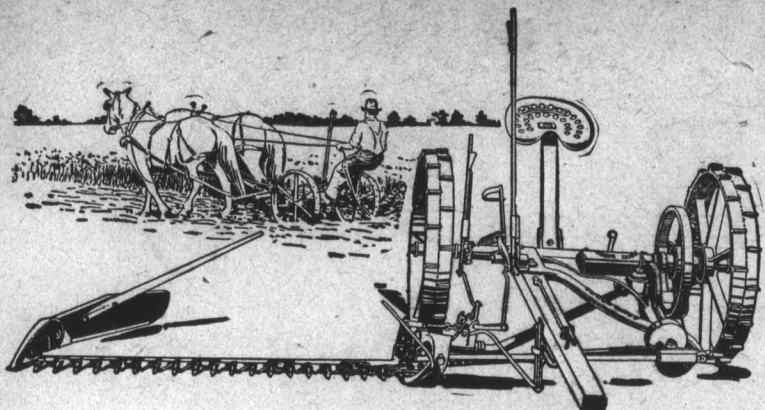
In every case we will do our best to make a satisfactory settlement or force action, for which no charge for our services will ever be made, providing:

- 1.—The claim is made by a paid-up subscriber to The Business Farmer.
- 2.—The claim is not more than 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.

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

Report Ending April 5, 1928
Total Number Claims Filed.....3,164
Amount Involved.....\$34,164.88
Total Number Claims Settled.....2,643
Amount Secured.....\$31,696.32



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CATAPULT By NORRELL GREGORY

Another Tale of the Homestead Country

WHAT HAS HAPPENED SO FAR

THE two years following the one in which the Muirs sold out and came to Colorado, and bought a ranch over on the west side of the divide, were hard ones. Not only did the bottom drop out of the cattle market but a hard winter killed off a large number of their cattle. Things looked pretty dark, especially to Doug Summers, an orphan who came west with the Muirs, and Mary Muir, because they were planning on getting married just as soon as they could get a little money put aside. Doug being an expert rider, decides to earn some money riding bad horses. A prize of \$1,000 is offered to the man who can ride Catapult and Doug has his eye on that prize. His plans do not meet with the approval of the Muir family. The third winter was a terror and it was June before the cattle could be turned out on the range. By that time they were a sorry looking lot. To make matters worse many of them got poisoned on giant larkspur and they died on every hand. It looked as though the folks were going to lose out but they decided to break up some new land and try raising more wheat. They had a steam engine they called "Wild Cat" and Doug and Terry bought a large plow from a neighbor. Returning home with the plow after dark an automobile ran into them but no one was hurt. They learned it was one of their neighbors, Sid Stuttgart and his mother and sister. Next morning they got at their work of clearing and plowing. After they got this work done, Doug, Terry and Mort started out to ride the range to see how their cattle were coming along. They found plenty of dead ones. Doug went over to the Stuttgart ranch to ride some untamed horses. He spent the night there and arose the next morning before the rest to ride one of the bad horses in the corral. While looking them over he learned that Ray Stuttgart was also an early riser and intended to watch him. He picked Hobo, half brother to Catapult. The first time he mounted he was thrown, being caught unawares, but the second time he conquered.

(Continued from March 31st issue)

Doug rode another bad horse that afternoon. At least they said he was a bad horse, but he was play compared with Hobo. They kept him until late at night and he went home by starlight, against their urging to remain, his head spinning again.

He did succeed in stabling his mount, but somehow he had trouble in locating the door of his bedroom and upset most of the furniture of the sitting room in a vain effort to do so. Terry came at length and led him away from a medicine closet into which he was trying to climb amid sundry crashes of bottles and a medley of smells. Next morning he awoke with another of those headaches and as surly as a spring bear.

"Where's all that smell of turpentine and iodine coming from?" he wanted to know as he dragged on the boots Terry had taken from his feet when he had to put him to bed.

"From you," said Terry pointedly. "You broke every bottle in the medicine chest last night."

"How in the thunder did I do that?" Doug wanted to know. "I don't remember anything about it."

"Don't suppose you do," said Terry, fixing him with a look. "There must have something happened to your mind else you wouldn't have been trying to climb into it."

Doug digested this. "I must have made a little noise," he said finally.

"Noise!" exclaimed Terry. "A locoed steer turned loose couldn't have made more."

"Did I—er, say anything?" asked Doug.

"Doug," said Terry earnestly, "I always thought that cussing was something a fellow got good at by practice. If you ever had any practice before, I don't know when it was, but after hearing you last night, I'll sure have to change my mind. It beat anything I ever heard before or expect to hear hereafter."

Doug drew a long breath. He arose presently and tried to smooth his tousled hair.

"Come on out to breakfast," said Terry. "They've been waiting a good while."

It was a silent lot that was gathered around the table—a grave lot. In their eyes, Doug had committed an all but unpardonable sin. Not a word was spoken until the meal was finished. Several times Doug tried to catch Mary's eye, but she was always looking some other way when he looked at her.

Mr. Muir pushed back his plate and cleared his throat nervously.

"Douglas," he said—he always addressed Doug by his full name when under emotional stress—"Douglas, I don't want to be hasty in many decision, or unjust; but we talked this matter over last night after you came in. We had plenty of time, and I don't think it would be called a hasty decision."

"Talked what over," growled Doug, irked by the funeral atmosphere and the seriousness with which they were taking the affair. He hadn't done anything so wrong. Lots of folks got lit up once in a while.

Mr. Muir frowned at his tone.

"I had hoped you would look at it differently," he said; "but this household can't and won't countenance such carrying on. Either you'll cut loose from that kind of a bunch, and all like them, or you'll have to cut loose from us. That's final." He sat looking at Doug, waiting.

"If you want my answer," Doug said loudly, "I can mighty soon give it to you. Nobody can tell me who I can or who I can't run around with."

He swept his hat from a chair where he had dropped it when he came in during the night, slapped it on his head and stalked from the room. Mary, he noticed, looked very miserable as he did so.

Terry overtook him at the corral. There were tears in the lad's eyes as he laid his hand on Doug's shoulder.

"Doug," he choked, "I wish you could reconsider this thing, but I know you

can't. I knew it had to come. But remember, no matter what comes or goes, you can always count on me."

"Terry, old boy," said Doug, his eyes flaming, "you did your best for me. If everybody was like you, there'd be a whole lot less fights in the world."

He entered the stable and took down his saddle and bridle.

"Can I borrow a horse to ride to town on?" he asked.

"Borrow!" said Terry. "You take your pick of the bunch, Doug. It's yours. And listen, Doug; don't go too far away. Maybe we can get this thing straightened up after a while."

Doug threw the saddle on Blutch, a little roan he had always ridden and claimed.

"Terry," he said, "it's hard to tell where or how I'll wind up now that I'm on my own. Think of me at my best, old boy."

"Wait," said Terry; "aren't you going to say good-bye to Mary?"

Doug hesitated; then his face hardened.

"No," he said. "She looks at it just like your father does. It won't be any use. It's best just to ride away and let things ride as they lay. People's ideals don't change in a minute. Good-bye, Terry."

They shook hands with averted faces; and so Doug rode away. Terry stood for a long time without raising his eyes, and when he did his sister stood beside him.

"Terry," she said, "he never even said good-bye to me!"

"Sis," said Terry, "buck up. It will look different after a while. Doug's got too much good stuff in him to go to the dogs. He's a real guy, Mary."

"Don't I know it!" she said, crying; and so went back to the house.

At the house she found her father still wearing a formidable facade.

"He's gone!" she said flatly. "You drove him away. I hope you're satisfied."

Mr. Muir stared at his daughter, but said nothing.

"You shouldn't talk that way to your father, Mary," said her mother, gently. "He did what we thought was right. He did it for Doug's own good."

"Do you think," said Mary, passionately, "that it will be better for him out among the kind of people he'll likely be with now? Do you think it will be better for him to be in a line camp with a crowd of drinking roistering, swearing cow-punchers? Do you?"

"If he isn't strong enough," Mr. Muir pointed out, "to go straight even in such company, he isn't strong enough to become a member of this family. You know that, Mary. It was the only way."

"But Doug isn't used to such things," she faltered. "It's hard for any boy brought up as he has been."

"Hard, yes," said her father. "But necessary. You wouldn't want him around here making a scene regularly as he made last night, would you?"

She shook her head at that. It was an unpleasant recollection.

"He'll come back," said Mr. Muir. "He'll be glad to come back. And he'll have some reason to him when he does come."

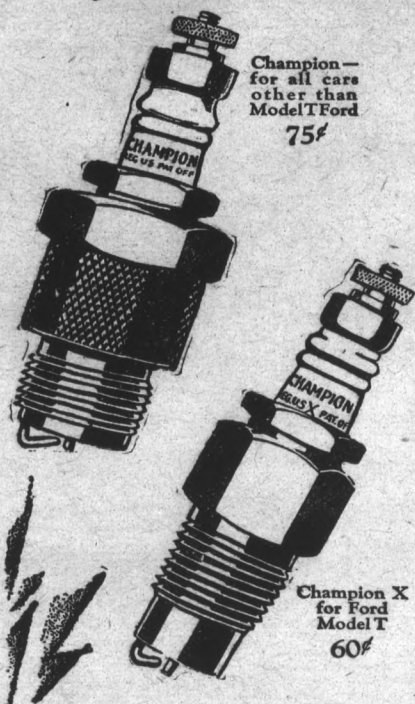
"He'll never come back!" said Mary vehemently. "You know that as well as anyone. He'll never come back of his own will."

"It will be better," her father pointed out, "to put off this discussion. In the frame of mind you're in, as well as the rest of us, we can't see clearly. God knows, I hated to see Doug go as much as anyone—as much as if it had been Terry. Now, then," he continued, more gently; "let's just drop the subject for a few days. Then we can see and think better."

And so it was dropped. Doug's name was not mentioned in that household for many a day after that except when Mort unguardedly referred to him. Mort held an undisguised admiration for Doug, and he went to no pains to conceal it.

They were using the engine to open a ditch to lead water down on the grain field, and were having all kinds of trou-

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ble with it. He and Terry came in for supper several days after Doug had left, and reported no progress.

"Wish Doug was here," said Mort wearily. "That boy can do anything when he sets his head to it. I don't see how we're to get along without him."

Mr. Muir compressed his lips but said nothing. Mary opened her's as if to speak, changed her mind, and also remained silent.

"We need him all right," said Terry.

Next day the stage driver on the star route scattered posters announcing the fair to be held in town on the Fourth. Doug's name was down as riding Hobo in the mile race and also down as riding Catapult in the bucking contest.

Mort was reading the announcement aloud when he came to that.

"Give me that paper," said Mary, and snatched it from him.

"Must be something wrong about that," said Terry. "Riders in the bucking contest don't usually know what horse they draw till just before the ride."

"If you'd waited till I finished," said Mort aggrievedly, "you'd understand. Catapult is a special feature. There's five hundred dollars down to anyone that will ride him. None of the punchers will take a chance with him in a contest, because they know blamed well they won't have any. These fellers around here know they ain't in his class. I'm plumb sorry to hear Doug is going to tackle him."

"If he can be ridden, Doug can ride him," declared Terry.

"He can't be rode," declared Mort. "At least he ain't been rode to date."

Mary was staring at the program with wide eyes, her face gone white. All the page was a blur except those few words, and they stood out with stunning boldness:

"Doug Summers on Catapult."

The paper containing the racing program came a few days before the Fourth, which fell on Saturday. Friday all the people who were up to Stuttgart's camp



"VEAL-PORK A SPECIALTY"

That is the title Miss Lula Brown, of Emmet county, suggests for this picture which she sent to us.

even the riders, came down via horseback and stopped at the Bar Z for the car which mechanics from town had repaired and left there to be called for when wanted.

It was late in the afternoon when they came, and even tho the Muirs as a whole did not think well of that crowd, they were urged to stay for supper, and accepted the invitation.

"I see," said Spence Lossing, "where Doug is to ride Catapult tomorrow as a special attraction."

"To see that lad ride anything, any time, would be special," put in young Stuttgart.

"Where is Doug?" asked Spence. "He hasn't been up our way for a week or more."

"He's over about town," Terry told him. "Getting ready, I reckon."

"How have your cattle losses been?" interpolated Mr. Muir, hastily, desirous of shunting the talk in a different direction.

"Why, not so bad," Lossing assured him. "We've not lost many. Have you?"

"We've been hit pretty hard," said Mr. Muir. "The boys reported over a hundred dead some time ago. And when you consider that we have but about three hundred on the range, it's what I would call heavy. But we're new up here," he qualified.

"A hundred!" exclaimed young Stuttgart. "That is a stiff loss. I've not been out on the ranch much, but I've not run across many dead animals bearing our brand. Not over a dozen or so and we've got over two thousand on this range, all told, mostly whitefaces, too."

Lossing looked around at the others uneasily.

(Continued in April 28th issue)

YES, HE WOULD

A negro preacher was describing to his congregation the miseries and the penitence of the prodigal son.

"Dis young man," he said, "got to thinkin' about his meanness an' his mis'ry, an' he tuk off his hat an' frowed it away. Den he tuk off his coat an' frowed dat away. Den he tuk off his vest an' frowed dat away. Den he tuk off his shirt an' frowed dat away, too. An' den, at las', he come to hisself!"—Washington Farmer.

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You will find this the economical thing to do because a small expenditure may enable you to maintain or increase the value of the car and give you thousands of miles of additional service.

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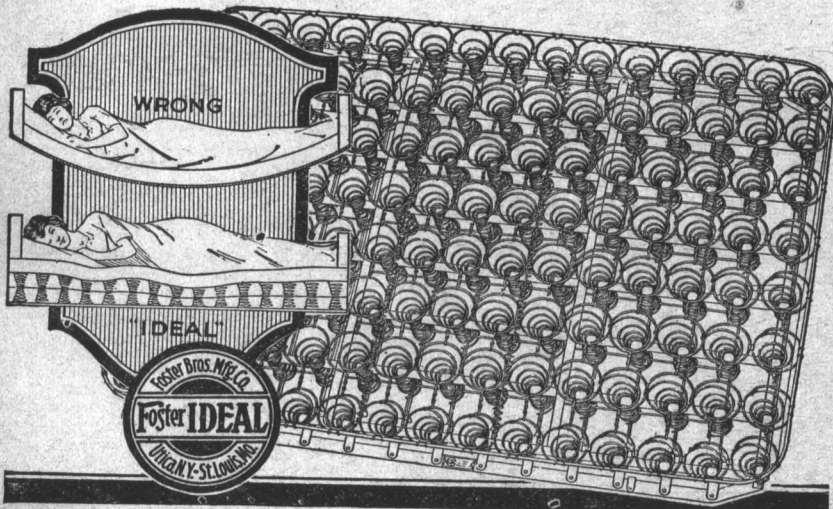
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THE FARM GARDEN

By C. H. HARDEN
(Question Gladly Answered)

Cauliflower

DO not attempt to raise cauliflower as a spring or summer crop unless you have means of producing good strong, well hardened plants ready to set in the field by April 10th. It must head up either during the cool weather of early spring or late fall and will not head during hot weather. The bulk of the crop is grown as a fall crop and success is more assured with fall culture. Sow the seed about June 1st and set the plants July 15th to 20th for the fall crop.

Cultivation

Much has been said and written recently as to whether or not cultivation is necessary except as a means of weed control. Those authorities who maintain that cultivation is an unnecessary operation except as a weed control measure would undoubtedly make exceptions to their rule if they had some of the heavy clay soil of our locality included in their experiments and observations.

In sandy soil I venture to say that, providing weed infestation was not bad, good crops might be produced with a minimum amount of cultivation. As in this type of soil the "dust mulch" is of limited benefit as a means of moisture conservation. On the other hand the "dust mulch" is very important on heavy clay soils. But if as the advocates of both systems admit that cultivation is only necessary in weed control it leaves little room for argument as we all have weeds or soon will have if we cease to cultivate. So I do not think the cultivation will become extinct in the very near future.

Weed Control

In Peter Henderson's book on gardening we find this advice: "Do not cultivate to kill the weeds but cultivate the soil in such a manner that weeds can not grow."

In other words kill the weeds before they can be seen which is at the time they are sprouting.

Since reading this some years ago I feel that it has paid well for the space it has occupied in my memory. I recently had its value brought to my attention rather forcibly. I had planted a bed of carrots and just at the time the seed was sprouting we had a heavy shower. When the soil dried it formed quite a crust over the bed and I realized something should be done.

I took a hand rake and raked

lightly over the surface and found I was bringing a great number of small sprouts of weed seeds to the surface.

When I was nearly done I was called away and the spot I left undone never got raked. In three weeks the spot left unraked was full of weeds while that which was raked was exceptionally clean.

Since that time we rake all of our fine truck crops and have done very little weeding to keep our gardens clean.

Plant Protectors

Plant protectors designed to protect plants from frost after field setting are now on the market in various forms. Results with the majority of them have been rather disappointing. Some of them which are made of glass substitute material are giving fairly good results but their cost (\$5.00 to \$6.00 per dozen) prohibits their profitable use on a large commercial scale. My observations lead me to believe that the best plan would be to provide a few more sash which will permit giving the plants more room and holding them until danger of frost has passed.

Kohl Rabi

Those who are troubled with turnips getting wormy or bitter during summer months would do well to try kohl rabi as a substitute.

They possess a taste which is similar to the turnip. They should be harvested and eaten before they are too old as they start to get tough and woody when left too long. Sow the seed early in the spring in rows 4 to 20 inches apart and thin the plants to 6 or 8 inches apart.

Good Seed Important

When I buy what I believe to be the best seed obtainable regardless of the cost my conscience is clear even though I fail to produce a crop. I do not mean to say that high priced seed is always the best, but on the other hand good seed is usually high priced.

There is a vast difference in the labor and expense of growing high quality seed as compared with low grade seed.

For instance, cheap tomato seed is sometimes a by-product of canning factories.

There is a feeling of security only to be enjoyed by knowing that your seeds come from a reliable seed house.

OUR RADIO

By B. K. OSBORN
(Any question regarding radio will be gladly answered by our radio editor. You receive a personal letter and there is no charge if your subscription is paid up.)

OPERATION OF DRY CELL TUBES

THE 199 type tube has brought the pleasures of radio to thousands of people who live in isolated districts where the only available power is from dry batteries. In order to make battery operation satisfactory, the power consumption must be kept down about one seventh of the power required by its big 201A Brother. This very low filament power means that the dry cell tube is designed to work about as hard as it can all the time in order to supply the necessary electrons for amplifying purposes. It does not have the factor of safety that the larger tubes have and in consequence is very easily damaged.

The 199 type filament is rated at 3 volts and may be safely operated at 3.3 volts, but continued operation at any higher voltage has the effect of driving off the electrons from the filament and gradually stopping its operation even though it lights and looks as good as ever.

New dry batteries have a voltage of 1.5 and therefore two new batteries in series would give the required 3 volts, but as they are used their voltage drops and for this reason three dry cells are recommended in order that they may be used until

their voltage has dropped to one volt each. They are then practically exhausted and should be discarded. However, it is important to remember that 3 new batteries will give 4.5 volts which will surely damage the tubes if turned on to full brightness. The filament rheostat should be used to cut down the voltage when the batteries are new. If your radio set does not operate properly with three new batteries and the rheostat partly turned down, one or more tubes are probably "dead." Do not make the mistake of adding more batteries, but replace the damaged tubes or have them rejuvenated by your radio dealer.

TALKS ON CORN BORER FROM 37 STATIONS

EXACTLY 37 radio stations in corn-growing states are cooperating with the United States Department of Agriculture and state agricultural authorities in the spring corn-borer information program. The stations are broadcasting each week a 10-minute release prepared by department entomologists and field workers. WKAR, Michigan State College, East Lansing, is one of the stations.

• Chatting with the Agricultural Teacher •

Edited by V. O. BRAUN

(Mr. Braun is a farmer, a teacher of agriculture and a writer. He owns and operates a large farm in Branch county known as Spring Water Farm. He is a successful teacher of agriculture in a high school in Shiawassee county. Also he writes for many leading farm magazines of this country. He is well prepared to help farmers with various problems and our folks are welcome to write him at any time. Just address him care of M. B. F. and you will receive a personal reply by early mail.)

Thistles and Quack Grass

HAVE you ever had any experience with Canada Thistles or quack grass? I have a letter on my desk from E. J. of Howard City asking the first part of the above question. This gentleman found some thistle balls in his seed oats and wished to know if the oats would be safe to plant. He stated that there were no seeds in the balls that he could discover. Yes, I have had plenty of experience with Canada Thistles, and I



V. O. Braun

believe the majority of farmers have had some of the same disliking encounters with this common perennial weed pest. No doubt many of you have the same problem of which Mr. E. J. has been confronted, and probably you have also found thistle balls in your seed oats.

Like the old adage: Wherever there is smoke there is fire—you may also state where there are thistle balls there are thistle seeds. Perhaps you can not find these seed as Mr. E. J. states. If so, they might be in either one of two places. If they ripened before the oats were cut, the wind distributes them over your field, and in this instance you need not worry about sowing them, as they are already sown and will probably yield you a good crop. If the oats were cut before they were distributed, the separator probably pounded the seeds out of the balls, and some of them are in your seed oats and some are in the straw stack. Take your choice: you may sow the oats and secure a crop of thistles or you may draw the straw out as manure and secure a crop. Sounds encouraging doesn't it? The above statements are facts and I use them thus to impress upon your mind first of all, to always cut these "donkey deserts" before they go to seed. This is quite a task, and I'm sorry to say that it hasn't always been done on Spring Water Farm, but it should have been done, and I think I'll see to it that it is done in the future.

A good fanning mill will separate these thistle seeds from the oats. Every farmer should run his seed oats through a fanning mill this spring whether he has thistle seeds in them or not, in order to secure the best oats for seed. By taking some of the seed oats from the bottom of the bag and spreading them out on a piece of white paper thistle seeds can be detected if present. A thistle seed is a small cylindrical shaped object measuring about five times in length, its thickness; one end is tapering and the other end flat. These seeds can be taken from the oats quite satisfactorily, but if I were in doubt of thistle seeds in my oats, I certainly should secure new seed.

Exterminating Thistles

From the experiences that I have had of hoeing thistles as a lad on the farm, I should almost be tempted to assert that they cannot be exterminated. I still have a very vivid memory of the blistered hands, the aching back and the scratched bare legs which accompany this detestable task. If you have a boy and wish to drive him from farming just give him the task of hoeing the thistles from the corn field, some very hot day when the rest of his pals wish to go down by the old swimming hole and take a plunge.

However, by modern methods Canada thistles can be exterminated. Frequent and thorough cultivation, or mowing to keep down the top growth, will eventually starve the roots and kill the plant. They must be mowed before seed forms. Alfalfa is an excellent crop to use in thistle eradication. We secured a successful stand of alfalfa two years ago on a very badly thistle-infested field,

and the frequent cuttings and crowding effect of the alfalfa has completely eradicated the thistles.

Quack Grass Problem

I have some inquiries on the eradication of quack grass and I'm sure some of you farmers have had trouble with this weed. We had a small patch several years ago on Spring Water Farm and because it wasn't taken care of properly we shall be forced to do considerable work this summer to exterminate it. Because of its persistence and the ease with which it may be spread by either roots or seeds, quack grass is recognized as being on a par with the Canada thistle in our list of weed pests. Clean, frequent, and thorough cultivation in dry weather which prevents top growth and thus starves the roots, is the most effective method of killing it. Small patches of quack grass can be destroyed by frequent hoeing with a sharp hoe or by covering with tar paper weighted down with stones. Large patches can be eradicated in the following manner: Plow in mid or late summer, turning the sod to a shallow depth. Disk and cross disk this sod with the disks set straight in order that the sod will be well cut in pieces. Harrow at weekly intervals with a drag and when dry the roots and runners may be raked up with a hay rake and burned. The following year, after deep plowing, the field should be planted to corn and with frequent cultivations the quack grass can usually be killed in this manner, but it is far from an easy task. It can be very easily spread with a drag and cultivator. When a quack grass plot is cultivated or harrowed, no other part of the field should be harrowed until the plot is finished and the tool thoroughly cleaned.

Pleasant Surprise

I was very pleasantly surprised a few days ago when Mr. I. J. Mathews called at my office to make a short visit. Probably every farmer in Michigan has read one or several of Mr. Mathew's feature articles on various agricultural subjects. He is regarded as one of our best agricultural writers and his interview was a real pleasure on my part. Mr. Mathews, in his articles, treats agriculture as a business; the largest and most important business in the world today. He shows how agriculture is a science and must be dealt with in that manner; that education and research are a part of this great industry just as much as they are a part of any other industry. And perhaps the most important and most impressive point of all which he stresses is that we need men in this industry with vision, with brains and with magnetic power to carry on the work. When agriculture is thought of in this manner and treated as such among the farmers of today, and when the young men see in it as great a challenge as they do in other lines of endeavor, then we shall have a better and higher type of agriculture and a more satisfied farm life. I wish that every farmer might see agriculture in the same light.

Keeping Hogs

One of my friends asked me this question a few days ago: Would you advise me to sell my hogs now and take what I can get for them or keep them? Am I not losing money feeding my corn into eight cent hogs? This is a very good question and I know that most of you would answer at once that this gentleman was losing money. I know that we are all disgusted with the hog market. We are feeding thirty shoats on Spring Water Farm so this question also concerns me. Before answering it however I think we ought to figure on it and have some data upon which to prove our statements. I put the problem before my Animal Husbandry Class as follows: A man buys a two month old pig for five dollars. He feeds him a balanced ration until

(Continued on Page 32)



If you want extra traction and long tread wear in addition to balloon tire comfort, be sure you get this quiet-running new-type Goodyear All-Weather Tread.

Are you sending away?

Any man who goes to the bother of sending away from home for tires, is overlooking the fact that the best tire proposition he can get is available right in his own town.

This proposition is Goodyear Tires, sold and serviced by the local Goodyear Dealer.

In this dealer's stock are the best tires money can buy—so superior in quality that they far outsell any other tires in the world.

The dealer's service starts when you come in his store—he recommends the size and type of tire that is best for your car; he mounts it on the rim for you, and fills it with air.

All during the long lifetime of that Goodyear Tire, the man who sold it to you helps you give it the care it should have to deliver maximum results.

Thousands of motorists like you have found this combination of Goodyear quality and Goodyear Dealer Service a big money-saver, and you can depend on finding it the same.

Goodyear makes a tire to suit you—whether you want the incomparable All-Weather Tread Goodyear, the most famous tire in the world, or the thoroughly dependable but lower-priced Goodyear Pathfinder

The Greatest Name in Rubber

GOODYEAR

Copyright 1928, by The Goodyear Tire & Rubber Co., Inc.

A Concrete Milk House

with an asbestos-shingle or slate roof is FIREPROOF, DURABLE and SANITARY... It is believed to be the cheapest in the long run, for it requires few repairs and no painting.

—Farmers Bulletin No. 1214, "Farm Dairy Houses"
U. S. Dept. of Agriculture, Washington, D. C.

Free Construction Plans

A four-page leaflet has been prepared containing plans and instructions for building a concrete block milk house.

INSULATED CONCRETE COOLING TANKS which SAVE HALF YOUR ICE are included in the above plans.

Your Copy Is Free—Ask For It

These plans may be procured from your County Agricultural Agent or from the

PORTLAND CEMENT ASSOCIATION

Dime Bank Building, DETROIT, MICH.

A National Organization
to Improve and Extend the Uses of Concrete

Offices in 32 Cities

"THE FARM PAPER OF SERVICE"

That's us, folks. If we can be of service do not hesitate to write in. Advice costs nothing if you're a paid-up subscriber.
The Business Farmer, Mt. Clemens, Mich.

A LONGER KEEPING LOAF

CERESOTA made bread keeps longer because Ceresota Flour absorbs more water than ordinary flours. It makes a lighter, more easily worked dough, better for bread and pastry.

Try Ceresota for your next bread baking. Try Ceresota next time you bake a pie. Then you will know from first-hand knowledge why those who have used Ceresota for a score of years or more call it "The Prize Bread and Pastry Flour of the World".

Look for the
Boy on the
Sack.

The Northwestern
Consolidated Milling
Company
Minneapolis, Minn.



COUPON

WONDERFUL
Painting Book for the Kiddies—10c.

Big, beautiful 6x8—48 pages—12 magnificent colored pictures—12 painting charts—complete instructions to young artists—set of beautiful Japanese water colors—wonderfully interesting fairy story. Sent postage prepaid.
CLIP COUPON—MAIL TODAY

THE NORTHWESTERN CONSOLIDATED MILLING COMPANY, Minneapolis, Minn.

Here is my 10c for your beautiful painting book, "The Adventures of Ceresota" and the set of Japanese water colors.

Name..... M.B.F.

Town..... State.....

R. F. D.

Ceresota Flour

The Children's Hour Club

Motto: Do Your Best
Colors: Blue and Gold

Eathel Fay Sharp
President

Helen B. Kinnison
Vice-President

Uncle Ned
Secretary-Treasurer

DEAR BOYS AND GIRLS: Our contest on "My Favorite Breed of Chickens" is coming along fine and there are still a couple of days before it closes so I can not tell you the names of the prize winners at this time. However, I do want to say that the letters show a lot of thought and it is going to be a real difficult task to pick out the winners. I have been reading them as they come in and they have made me very hungry for my favorite food—fried chicken. Next time I will be able to tell you who were the lucky boys and girls.

But we can not go any further in this letter without starting a new contest. This time I have something different, something that you never heard of before, I'll bet you. It is an auto contest. Seeing that this is the day of the auto I think you "auto" be able to get this contest right in no time. Below are 12 questions for you to answer and the first 11 questions is the name of a certain make of automobile.

1. What car is used to generate heat?
2. What car is made of green cheese?
3. What car is a river in New York?
4. What car was once a rail splitter?
5. What car means to avoid?
6. What car provides a crossing for a stream?
7. What car is an intoxicated bread maker?
8. What car was a noted French explorer?
9. What car first experimented with electricity?
10. What car is a noted violinist?
11. What car is two letters of the alphabet?
12. Which is the best ad in this issue, and why? Answer this in 200 words.

Remember, get your letters in as soon as possible because it is the first four that are correct and neat that get the "Mystery Prizes" this time.—UNCLE NED.

Our Boys and Girls

Dear Uncle Ned:—We've been receiving the M. B. F. for only a short time, but I think it's just a dandy. It's chucked full of interesting things to read.

In my opinion, I think young and old need an education. If we are too shiftless to learn in school from our books and keep in mind what the teacher tells us, we'll learn things later in life through experiences. Although I didn't get a chance to start in high school two years ago I am still thinking of getting a high school education one way or another.

Don't you think, Uncle Ned, that it is a terrible disgrace for women folks to drink and smoke? Yes, men too. How can

we expect some children to grow up and be decent men and women when their parents are drinkers? This country is supposed to be dry but I think it's "wetter" than it ever was before. If we can get the prohibition law obeyed just think how much more sunshine there would be in this world. Even in the darkest homes there would be some. Your want-to-be niece.—Sophie M. Kompik, Pentwater, Mich.

—Glad you like M. B. F. We are trying our best to make it interesting to everyone who lives on the farm. What you say about an education is very true and I hope you succeed in getting a high school training. After that you may go to college. If our men and women got any benefit from drinking or smoking these habits might be all right but they are harmed rather than benefited. No, the country is not "wetter" than it ever was, but the liquor interests try to make us think it is so they can get us to vote for the saloons again. Never! Some day people will not know what liquor or tobacco taste like, but that will not be for many years yet.

Dear Uncle Ned:—Tonight I have been reading M. B. F. and, as usual, turned first to "The Children's Hour" page.

Today the county Jersey cattle club met in Allegan. Daddy was elected president for the third successive year.

I am twelve years old and in the eighth grade in the Buys school seven miles north of South Haven. We have just finished a spelling contest, the Pierce-Arrows against the Chryslers. My side lost, so the Pierce-Arrows will treat the winners to ice cream and cake. I wish you would surprise us and attend the party.—Hope Fowler, South Haven, Mich.

—I too wish I could "surprise" you, because I just love ice cream and cake.

Dear Uncle Ned:—Just finished reading the letters on Our Page among which was our President's letter. Hurrah, for Eathel! I am sure she will make a good one, aren't you Uncle Ned and everybody else? I agree with all her suggestions.

We've been taking M. B. F. for a long time and I think it is great.

Yes, Uncle Ned, have some more contests. You always give such lovely prizes, I hope I win one. Your want-to-be-niece.—Stella Wrona, Box 54, Pellston, Mich.

—How do you like the kind of contest we had in the last issue, Stella? Or possibly there is some other kind that you have in mind. If you have tell me.

Tongue Twisters

What kind of a noise annoys an oyster? A noisy noise annoys an oyster.—Florence Stockmeyer, R. 1, Munger, Mich.

Talk about the saw you saw sawing but I saw a saw sawing and of all the saws I ever saw sawing I never saw the saw that could saw like the saw that I saw sawing in the saw mill.—F. L. R., Brimley, Mich.

You know and I know and everybody else knows that your nose is longer than my nose.—Lanor Mitchell, R. 3, Lakeview, Mich.

Riddles

Why is a girl's belt like a garbage can? Because it gathers the waist.

What tree is like a girl? A peach tree.

What is the difference between ammonia and pneumonia? Ammonia comes in bottles while pneumonia comes in chests.—Viola Cook, R. 3, Ada, Mich.

Why is heaven like a bald-headed man? There's no more parting there.

What building has a thousand stories? The public library.

What is it that you should always keep when you give it to others. Your word.

What is an oyster? A fish that is built like a nut.—Arora Marie Harrison, R. 1, Bronson, Mich.



Scouting for Farm Boys

Boy Scouts of America, Department of Rural Scouting.

(All inquiries regarding scouting should be addressed to the Scouting Editor, The Business Farmer, Mt. Clemens, Mich.)

NOMINEES FOR OFFICE

NOMINEES thus far are: Elton Hickmott, of Birmingham, and David Allen Maule, of Cement City, for Chief; Harold Merrill, of Dansville, for Sachem; John James Cameron, of Croswell, and Charles Flower, of Birmingham, for Scribe; Claude Empey, of Millington, and

Harold Snyder, of Trenary, for Wampum Bearer.

For the Girls

We have had several inquiries about some organization for girls. There are several good organizations, including the Girl Scouts, Campfire Girls, Girl Reserves, and others. The

Girl Scouts headquarters is at 189 Lexington Ave., New York City. The Camp Fire Girls is located at 31 East 17th Street, New York. The Girl Reserves is a branch of the Young Women's Christian Association and can be reached through the national headquarters of that organization in New York or through Y. W. C. A. offices in the principal large cities of the state. The other girls' movements mentioned also have offices in most of the larger cities.

Any of these offices will be glad to furnish information to girls wishing to start units.

Start a Paper

Amateur journalism always has been an important feature of Lone Scouting. We should be glad to communicate with any ambitious boy or group of boys who would like to start a Lone Scout paper. Of course, the first requisite is a hand printing press, multigraph, mimeograph, or other machine for printing your publication. Such a project would not only be interesting, but educational and perhaps profitable, as well.

Keeping Us Busy

Whew! The Scouting Editor is getting almost swamped with the mail that is coming in to him from boys all over the State who want to be Boy Scouts.

Some are planning to start troops, others are taking advantage of the farm patrol plan, and others are joining THE MICHIGAN BUSINESS FARMER Lone Scout Tribe.

Write Clearly

One thing we do want to ask our correspondents is to write their names and addresses more clearly. Sometimes we can hardly make out what the names are supposed to be. Every once in a while a boy protests because we have misspelled his name in an article or letter. Usually it is because his name was so poorly written that we could not make out all the letters. Then, too, a letter sometimes goes astray because we could not tell for sure what the boy's address was meant to be. Help us, Scouts and Scouts-to-be! Write every name and address plainly, or better still print it, and be sure that your address in full is on the letter as well as the envelope. Sometimes the envelope is separated from the letter and then we cannot find your address.

Report Back

To the boys who are trying to organize troops or patrols, we would ask that you report back to us often and tell us how you are getting along. Maybe there is some way we can help you. Ask us! We are hoping that our efforts will mean the establishment of Scout troops, patrols, and Lone Scouts all over the State of Michigan and we are anxious to do anything we can to help bring this about.

Send in Your Votes

So far only a few ballots have come in on the election for officers of the M. B. F. Tribe. Send in your votes, you Lone Scouts!

A Game to Play

HAND TAG

THIS is a good game for young people of school age and should be played in a barn or some other suitable place. It is like ordinary tag, except that anyone is safe who is hanging from a rafter or beam in a barn, or from the limb of a tree if it is played outdoors as it may be in the summertime. Anyone who has his feet on the floor or ground, may be chased, and if he is caught, becomes "it." The game may be continued indefinitely.

Jokes

NOT HERE

"Hey, Mike," said a workman to the other atop, "don't come down on that ladder on the north corner. I took it away." —Viola Cook, R. 3, Ada, Mich.

REAL CATCHY

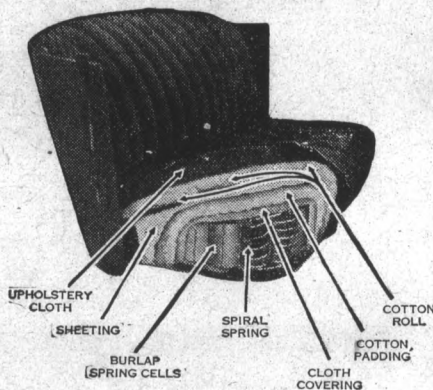
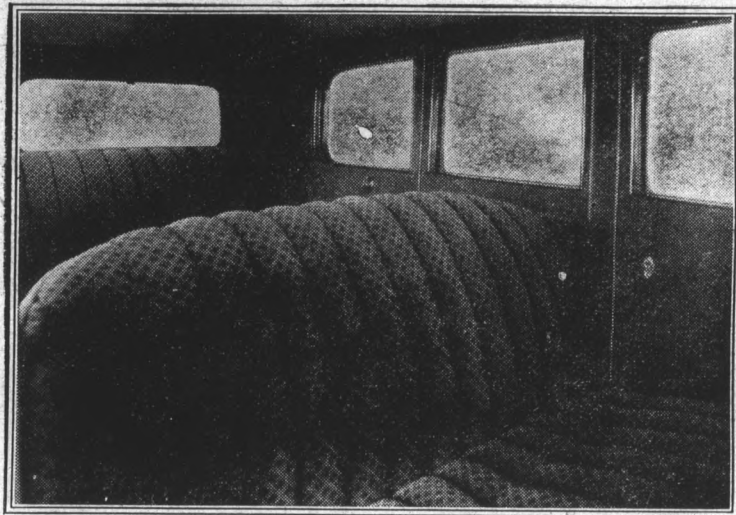
Modern Shopper: "Have you anything snappy in rubber bads?" Clerk: "No, but we have something catching in flypaper." —Viola Cook, R. 3, Ada, Mich.

LOST HIS CAR

Man: "My wife has run away with a man in my car!" Friend: "Good heavens! Not your new car?" —Viola Cook, R. 3, Ada, Mich.

Beautiful Upholstery

Affording Delightful Comfort



Method of Upholstering

In upholstering a Fisher Body the seat and back cushion spring assemblies are covered with cloth and a hair pad is laid on top. On the hair pad is placed the upholstery cloth. The flutes, or pleats, of the upholstery cloth are first stuffed with cotton batting and sewed by highly skilled workers. After the trimming material has been applied and sewed to place, the bottom of the cushion is covered with textile leather, and the cushion is ready for installation in the body.

All who inspect cars equipped with Body by Fisher are impressed with the beautiful and luxurious upholstery, whether the cloth used is mohair, velour, broadcloth or worsted. All Fisher upholstery cloth is subjected to the most severe tests to assure that it will give long service without undue wear or fading. Cushions and backs are designed with special attention and utmost care for comfort and durability. Saddle-back type upholstery springs are used, to fit the contours of the human body, thus providing maximum passenger comfort. A seat cushion of the conventional type, under five inches in height in the rear and seven inches in the front, contains 50 spiral springs. The backs also contain 50 springs of a lighter gauge wire. To completely trim a Fisher Body, about 225 separate and distinct operations are necessary.

Body by FISHER



When Writing Advertisers Mention—

THE BUSINESS FARMER

The Farm Paper of SERVICE



Kill Rats—Without Poison

A New Exterminator that is Absolutely Safe to use Anywhere!

Will not injure human beings, livestock, dogs, cats, poultry, yet is deadly to rats and mice every time.

Poisons are too dangerous

K-R-O does not contain arsenic, phosphorus, barium carbonate or any deadly poison. Made of powdered squill as recommended by the U. S. Dept. of Agriculture in their latest bulletin on "Rat Control."

"One of our good customers just told us he gathered 105 dead rats on his farm from using a 2-ounce package of K-R-O. We hear of many finding 30 or 40 rats after using K-R-O, which is highly successful and should please you." Wolgamot's Drug Store, Richwood, O.

75c at your druggist; large size (four times as much) \$2.00. Sent postpaid direct from us if dealer cannot supply you. **SOLD ON MONEY-BACK GUARANTEE.** The K-R-O Company, Springfield, Ohio.

K-R-O

KILLS-RATS-ONLY

Here's the Way to Heal Rupture

A Marvelous Self-Home-Treatment That Anyone Can Use on Any Rupture, Large or Small

COSTS NOTHING TO TRY

There is no longer any doubt but what the plan used by Capt. Collings is the only way to completely heal rupture without any operation.

And it costs you nothing to try it.

If you are ruptured, no matter how bad or how long, send your name and address to Capt. W. A. Collings, Inc., 138R Collings Bldg., Watertown, N. Y., and try free the wonderful invention that healed him of the worst two ruptures you ever heard of. He threw away his truss; never had to wear it again. His two large ruptures, that had kept him bedridden for years, were both held naturally by his own muscles without support of any kind. It was a marvelous cure of rupture, and you can have a free trial of his wonderful home treatment by merely sending name and address, no charge whatever. Don't fail to send for this free trial. It is certainly wonderful.—(Adv.)

THE DAFFODILS

I wondered lonely as a cloud
That floats on high o'er vales and hills,
When all at once I saw a crowd,
A host of golden daffodils;
Beside the lake, beneath the trees,
Fluttering and dancing in the breeze.

Continuous as the stars that shine
And twinkle on the milky way
They stretched in never-ending line
Along the margin of a bay;
Ten thousand saw I at a glance,
Tossing their heads in sprightly dance.

The waves beside them danced, but they
Outdid the sparkling waves in glee:
A poet could not but be gay
In such a jocund company.
I gazed—and gazed, but little thought
What wealth the show to me had brought.

For oft, when on my couch I lie
In vacant or in pensive mood,
They flash upon that inward eye
Which is the bliss of solitude;
And then my heart with pleasure fills,
And dances with the daffodils.
—William Wordsworth.

THE DAISY CLUB

ARE women losing interest in home dress-making? The Free-soil Daisy Sewing Club's answer is an emphatic "No!"

Ten Mason county clubs working under the extension leaders from East Lansing find their enthusiasm growing from lesson to lesson. Not only do young mothers with growing children derive benefit from the classes, but the middle-aged, whose children are grown and gone find pleasure and profit in learning new sewing kinks.

In the Daisy Club are several members who formerly made a business of dressmaking. They are especially enthusiastic over the work. Many find the lesson on care of the machine worth all the effort put into a year's work. Probably nothing in the household is more neglected than the sewing machine. It is like the wind-mill on the farm, so badly needed, so daily necessary, and so persistently neglected, especially in the matter of oiling.

One member says that, before taking up the work in the sewing class, each sewing attempt meant a game of hide and seek for her scissors, which were usually parked in the most inaccessible place. Her thread was scattered "thither and yon," the right size needle was nowhere to be found and the measuring tape in "Johnnie's" expert fingers might be tied around the cat's neck or used to hitch his wagon to a toy engine. Every attempt to sew meant a loss of considerable time. Now with a sewing box in a convenient place, holding necessary equipment, sewing is a pleasure.

As the majority of men love to fuss with machinery so the majority of women have an innate love of sewing. The advantage of home sewing, especially where pennies must be counted, lies in the fact that better materials may be bought if the extra cost of making need not be considered.

One woman after using her machine for years has only just now, through the class, learned to use the sewing attachments, and finds them a real time saver. The study of appropriate styles for different figures; the study and adaptability of commercial patterns; the necessity, urged by every pattern company that women be measured each time a pattern is purchased; the design and suitability of materials for underwear, have proved especially helpful. It is a far cry from the Mother Hubbard house-dress to the present dainty, well-fitting house frock, and where is the woman who cannot do her work better for knowing that she is becomingly and neatly clad?—G. Pearl Darr.

FAVORITE LABOR SAVERS

OBSERVATION of hundreds of kitchens has convinced Marion C. Bell, New Jersey extension specialist in home management, that three articles of great utility to housewives are a dish drainer, a comfortable kitchen stool, and a tray wagon.

With the aid of a dish drainer, many housewives are using boiling water instead of towels for drying dishes. By running scalding water over the dishes as they lie in the drainer, their temperature is raised to a point where they dry very quickly. This method has been found to

THE FARM HOME

A DEPARTMENT FOR WOMEN
Edited by MRS. ANNIE TAYLOR

DEAR FOLKS: Again we behold the Miracle of Spring, the miracle of living, growing things forcing their way upward through the brown earth and coming once more into the sunlight. Who can see Life and doubt God?

And no one tells the story of the Miracle of the Spring more beautifully than does our own beloved poet Longfellow in his Indian legend, Hiawatha. Do you remember the story of the Four Winds in the forepart of the book, how the fierce Kabibonokka, who was the North Wind, came hurrying and howling southward over the frozen earth and found Shingebis, the diver, fishing among the rushes? The story goes that Kabibonokka was greatly angered at finding Shingebis still in his domain when everyone else had long ago departed to warmer lands. So he came to the diver's wigwam at night and heaped up the snow in drifts about it, shouted and blew down the smoke flue, trying to put Shingebis' fire out, shook the lodge poles and flapped the curtains of the doorway, thinking to frighten Shingebis. But Shingebis was not afraid; he had four great logs for firewood, one for each month of the winter, and plenty of fish for food. He sat by his warm fire and laughed and sang. Then Kabibonokka entered the wigwam, but Shingebis did not care; he only turned the log a little to make the fire burn brighter, continuing to laugh and sing. Great drops of sweat fell fast and heavy from Kabibonokka's forehead, until defeated and maddened by the heat and laughter he rushed headlong through the doorway. In fury, he stamped upon the earth and snow and made it harder. He stamped upon the lakes and rivers and made the ice thicker. Then he challenged Shingebis, the diver, to come out of his wigwam and wrestle with him naked on the frozen fens and moorlands. Shingebis fearlessly went forth, and all night he wrestled with Kabibonokka, until the North Wind's panting breath grew faint and his frozen grasp feeble, until he reeled and staggered backward, at last retreating baffled and beaten to his kingdom far in the north. And Shingebis, the diver, laughed and sang on!

Your Friend,
Mrs. Annie Taylor

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

be more sanitary than using towels. The stool is made use of while the housewife is washing dishes and preparing vegetables, thus avoiding the tedium of standing in one position.

The tray wagon is used for taking food to the dining room as well as for bringing dishes back to the kitchen sink.

Mrs. Bell points out that there is other equipment on the market for saving labor, but the drainer, stool, and wagon seem to be extremely popular with the women who are now using them.

USE GOOD RUBBERS IN CANNING

THE safest course in canning is to discard all old rubbers and buy only 1927 ones from your grocer. If you do use left-over ones, test them by stretching them out to twice their size and see if they will spring back to their original size and shape. Then fold them and pinch them tightly between the thumb and forefinger. If the fold

shows no signs of cracks or holes, you may be reasonably sure that the rubber is all right.

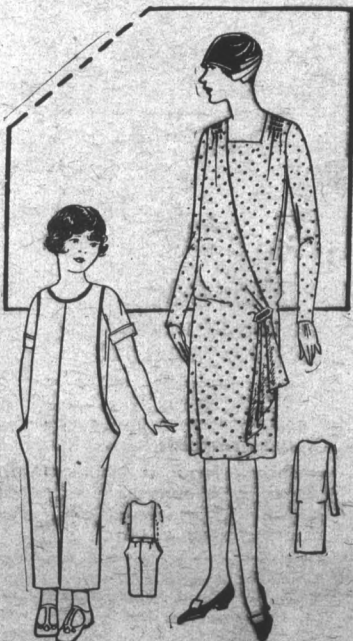
ONE-PIECE GARMENTS GOOD FOR CHILDREN

ONE-PIECE garments supported by the shoulders are preferable for children. If there are bands, they are apt to become tight, restrict circulation or interfere with digestion. A good test for children's clothes is that they leave no mark on the body.

SHRINK NEW MATERIALS

IT is always wise to shrink the material which is to be used for wash dresses. Fold the material and place it in a tub of warm water. Either squeeze out the water gently or put the cloth on the line to drip dry. Press the goods on the wrong side before it quite dry. Very thin material may be rolled between several thicknesses of Turkish towels, wrung as dry as possible and pressed immediately.

AIDS TO GOOD DRESSING



6100

6089

6089.—Just the simple, good looking dress you need to wear under your spring coat. It should be made up in one of the printed silks which are so much the fashion now, or you can use printed voile. Cut in 6 sizes: 34, 36, 38, 40, 42, and 44 inches bust measure. Size 38 requires 1 yard of 32 inch material for the underbody, 3 1/4 yards of 39 inch material for the dress, and 3/4 yard 12 inches wide for the underfacing of the cascade.

6100.—Very practical in this play garment for the "tomboy" or the family. Note the quaint pockets. Use Denim, khaki, or gingham for this model. Cut in 5 sizes: 2, 4, 6, 8, and 10 years. A 10 year size requires 2 3/4 yards of 36 inch material, and 3 1/4 yards of bias binding for trimming the free edges.

SHOPPER'S NOTEBOOK

Are you in doubt with what to trim your new spring frock? Lace will make it the last word in style. This fabric is being used extensively, not only for trimming, but for entire dresses as well. Leather, especially suede, and metal link belts are extremely popular and are being worn in place of belts of self material.

Navy blue is "the" color, so the fashion experts tell us, for the smart spring suit and ensemble. Black is the predominating color for evening wear. Gray printed silks and polka dots are smart for daytime.

Hats have almost no trimming at all. For the most part they are made of felt and a soft collapsible straw, with just a rhinestone pin, a buckle, or a band of ribbon for ornament.

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Mt. Clemens, Mich.

Favorite Songs

IN THE SHADE OF THE OLD APPLE TREE

The oriole with joy was sweetly singing,
The little brook was babbling its tune,
The village bells at noon were gaily ringing,
The world seem'd brighter than a harvest moon;
For there within my arms I gently pressed you,
And blushing red, you slowly turned away,
I can't forget the way I once caressed you;
I only pray we'll meet another day.

Chorus:

In the shade of the old apple tree,
Where the love in your eyes I could see,
When the voice that I heard, like the song of a bird,
Seem'd to whisper sweet music to me;
I could hear the dull buzz of the bee
In the blossoms as you said to me,
With a heart that is true, I'll be waiting for you
In the shade of the old apple tree.

I've really come a long way from the city,
And though my heart is breaking I'll be brave,
I've brought this bunch of flowers,
I think they're pretty,
To place upon a freshly moulded grave;
If you will show me, father, where she's lying,
Or if it's far just point it out to me.
Said he: "She told us when she was dying,
To bury her beneath the old apple tree."

Personal Column

Wants Candy Recipe.—I am wondering if some of the readers can tell me how to make a nut or peanut brittle that has granulated sugar sprinkled thickly over it.—Mrs. H. M.

Have You This?—Will someone loan me the September, 1927, issue of the Illustrated Companion? I will return it.—Mrs. F. D. Smith, Route 4, Buffalo, Mo.

More About Popless Popcorn.—In your issue of March 17th, I noticed the question asked how to make popcorn pop. We had that experience. Take one quart of shelled corn and add one teaspoonful water, mixing well. Put in loosely woven sack and hang in a cool damp place for a few days. It will pop as good as ever.—Mrs. L. H., Ingham County.

Lard Helps Make Corn Pop.—I read a request in the last M. B. F. for a method to make corn pop. I have very good success with some eight-year-old popcorn by placing a generous tablespoon of lard in a five-quart aluminum kettle. Let it get real hot, put in three handfuls of corn, and cover. Shake so it will not burn. After it has popped, put the salt on while it is still hot.—Mrs. A. E., Huron County.

Cock Roaches.—Please let me know the best way to get rid of cock roaches in the house without fumigation. I want some kind of poison.—P. L.

In a dwelling house, we ordinarily recommend the use of borax (not boracic acid but plain borax) to get rid of cock roaches. Get this in fine powder form and sprinkle it under sinks and everywhere the roaches travel. The roaches will get it on their feet, and then getting it off their feet to clean them, they will get it in their mouths and die.—Prof. R. H. Pettit, M. S. C.

Folks at Our House Like—

Delicious Filled Cookies.—If you try this recipe, you had better hide the cookie jar, as they won't last long.

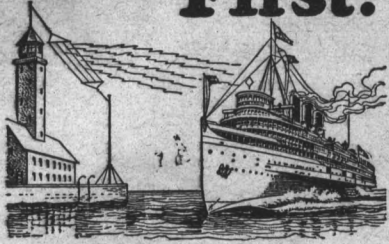
1 cup each of sugar and shortening, 1 egg, 1/2 cup sweet milk, pinch of salt, 3 cups flour, 2 tsp. baking powder, and 1 tsp. flour, 1/2 cup water. Boil mixture until thick. Spread between two cookies and bake. Shredded coconut may also be added to this filling.—Mrs. C. W.

What To Eat

Reduce Without Starving.—Have you gathered more flesh around your waist line, hips, and thighs in the passing year than becomes you? Do your friends and family tease you about being "fat"? Well, reducing is no longer as painful as it used to be. We can still eat and grow thin. Dieting is not a question of going without food but of eating the proper food. It's the cake, pastry, candy, butter, cream cheese, and starchy foods that puts on the pounds and keeps them there.

Can you remember to eat but very little bread, say a half a slice at a meal, and that little toasted, with just a little butter? Bread is NOT the "staff of life." Most people who have diabetes have been heavy bread eaters. Most people who have Bright's disease have eaten too much bread, meat, and potatoes in their lives and not enough fruit and vegetables. If you must eat some potato, eat only a

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medium one baked once a day. You may have an average serving of LEAN meat, but not at the same meal you have the potato. Shun bananas, for the food value of one banana is about that of a pound of meat. Never let a bite of pie or cake enter your mouth. Macaroni, spaghetti, and rice are potato substitutes and must not be eaten at the same time.

But on the other hand, you may have practically all the fresh fruits and vegetables you want. Do you know that the food value of a head of lettuce is the same as one small square of butter? Oranges, prunes, apples, grapefruit, berries, and pineapple are exceedingly good for you. Likewise, you can eat large amounts of asparagus, tomatoes, spinach, cucumbers, carrots, celery, green string beans, cabbage, and the like without ever gaining an ounce. You see, these foods have bulk which fills your stomach and gives you a satisfied feeling without adding any to your weight.

And remember! No eating between meals! If you do, Nature will start adding on the pounds again.

For the Movie Fan

Gauche.—(A United Artists production). "Gauche" is South American for "Cowboy," and in this gripping story of life and love in the Andes Mountains, our own inimitable Douglas Fairbanks plays the role of the dashing, daring cowboy bandit. Carefree and lighthearted, he laughingly goes his high-handed way, until he meets a mountain girl, played by Lupe Velez, whose temperament is a match for his. From then on his way is her way.

The story, based on an ancient legend, affords splendid opportunity for a typical Fairbanks performance, which means that there is plenty of excitement, color, and romance to keep you breathless and gripping your seat arms until the final words, "The End" flash across the screen.

Klever Kiddies

"Mother," complained little Marjorie, "You always give Eleanor the biggest slice of cake."

"But you see, dear, she is the biggest." "Yes, and she always will be if you keep giving her the most to eat!"—Mrs. G. I. M.

WOMEN'S EXCHANGE

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

171.—Nearly new arch support oxfords, size 5½, for good spring coat, size 38.—Address Exchange Dept., M. B. F.

Tricks in Trade of Home Dressmaking

By MRS. DORA R. BARNES

FRENCH BINDING

THIS binding is an excellent one to use around the neck, arms-eye, edges of sleeves, scallops, etc. 1. Cut a bias piece two inches wide. 2. Fold in center making a bias fold. 3. Stitch the raw edges of the binding to the raw edges of garment to be bound, then fold the edge of the binding back over the raw edges to the wrong side and put down by hand or machine. If stitched by machine stitch up close to edge of binding so that stitching will not show as the binding can fold over and hide the stitching.

KEEP CHILDREN QUIET BEFORE BED TIME

A QUIET hour before bed time will prevent restless sleep for children. Excitement, either in play or stories, noisy play and arguments about going to bed make it hard for children to settle down for the night. Have the day's activities stop gradually, with a story hour or quiet work, and the children will get into the mood for sleep.

HINTS ON HANGING PICTURES

WIRES that support pictures may be short and hidden behind the picture or they may drop straight down from the moulding to the two upper corners of the picture frame. Short wires behind the picture always require a hook or nail in the wall to support the picture. Wires hanging from a single hook on the moulding make a triangle which is not in harmony with the lines of anything else in the room.

Pillsbury's Best Flour

Not everything that looks good tastes good—frequently flour made from the wrong type of wheat will produce baked foods that are perfect in appearance, but flat and disappointing in flavor. Don't take chances—use Pillsbury's Best Flour—it will give you that delicious, delicate, unmistakable flavor that marks truly perfect baking. Pillsbury's Best is made only from carefully selected, full-flavored wheat—you can depend on it for better flavor and more certain success in everything you bake!



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Choose Carefully

"... no farmer can afford to risk a reduction in yield by using an uncertain drill."

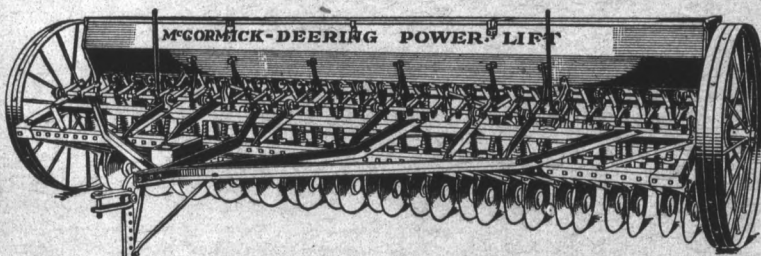
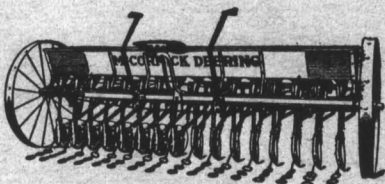
MEN long experienced in the ways of better farming have placed their stamp of approval on McCormick-Deering grain drills. They know without being told that seed worth planting is worth planting well, and to accomplish this a good drill must be used.

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See the McCormick-Deering line first. Talk to McCormick-Deering owners. A McCormick-Deering drill in the proper style and size on your farm will soon pay for itself in greater crop yields.

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McCormick-Deering grain drills are efficient, light-draft, time-tested machines, made in several types and sizes. They are certain to increase your yield by better seeding. *At right:* The McCormick-Deering 16-marker single-disk drill. *Below:* The 28-marker tractor type.



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Keep Chicks Healthy

A Life Saver for Chicks

MUCH of the chick troubles starts from a sour, germ-infested crop. Particularly, poisoning, digestive disorders and diarrhoeas result from contaminated food and drink, droppings, musty left-overs and the like, taken into the crop.

Germozone once a week in the drink keeps the crop pure and sweet—counteracting this chief source of danger to chicks. It is just as necessary and valuable for half-grown and mature fowls.

Backed by a reputation of more than thirty years' success, Germozone is the greatest aid to leading fanciers as well as hundreds of thousands of farm flock owners. Not only is it antiseptic and a powerful preventive, but also it is healing and most beneficial for colds, roup, canker and other similar ailments.

Don't confuse Germozone with potassium permanganate, which alone should never be given to chicks. Germozone contains five ingredients. Don't confuse Germozone with any of its many imitations. There is only one Germozone. Nothing else is just like it—nothing else is "just as good."

AT YOUR DEALER'S

Your dealer is particular what remedies he sells and recommends—your patronage means so much to him. Germozone is a remedy dealers like to sell, because it does just what is claimed for it. More than 10,000 drug stores, feed stores and chick hatcheries are agencies for Germozone. Get Germozone today. Ask for a copy of "The Lee Way" free book, which explains poultry diseases, diagnosing by post-mortem, treatment, care, etc. If no Lee agency in your town, write us.

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Manufacturers of the famous Flu-Koff Emulsion and Vapo-Spray, the GIZZARD CAPSULE, Lee's Lice Killer and other nationally known leaders.

"I have over 800 chicks out and doing nicely at this time, most of them from two to six weeks old," said Harry Harms of Harms Bros., Forest, Ill., leading breeders of exhibition stock. "I haven't lost over ten chicks from the entire lot. I give them Germozone in all drinking water. This is my second year with Germozone, and I won't use any other remedy. Last year I put out 1,250 chicks and raised 1,000 to maturity. I'm not bragging, but it is the best thing I ever used, and I recommend it to all my friends."

"Much of the credit for the splendid health and vigor of the birds I exhibited at the last Chicago Show and at the National Meet of the American White Plymouth Rock Club this year is due to the regular use of Lee's Germozone."

CROP REPORTS

Saginaw (N. W.).—Had two big snow storms last week; ground covered with snow; frost all out but too wet to do anything but chores. Not many auction sales; had two in Hemlock with horses brought in but not many sold; they were shipped from Detroit. Wheat seems to be right so far. Quotations from Hemlock: Wheat, \$1.55; corn, \$1.00; oats, 61c; rye, \$1.08; beans, \$9.10; potatoes, \$1.75; butter, 48c; eggs, 26c.—F. D., Apr. 2.

St. Joseph.—Wheat is greening up also clover and grasses. A few farmers have started to plow but all field work was suspended on account of recent snow storm. Snow about all gone again. 1928 chicks are beginning to arrive. Corn border cleanup has also started. Livestock looks well. Farmers complaining of poor luck with lambs and pigs.—A. J. Y., Apr. 2.

Hillsdale (N. W.).—Election day. Quite a little interest about it among neighbors. Nice spring weather caught cold and we had one of the hardest snow storms of the winter, last week. Some odd work caught up while it was nice. Some farmers drawing manure. Most of neighbors getting anxious to sow oats. A few baby chicks around neighborhood but not as many as last year. Eggs are fair price at 25c.—C. H., Apr. 2.

Kent.—Quite a large number of auctions and well attended. Most farms are rented in this county. Do not find vacant farms. There are a few changing farms. Spring lambs beginning to arrive and some good looking. Stock wintered fairly well. Not many potatoes for sale. Do not see any seed corn for sale. One of the worst blizzards we have had in 1927-28 winter hit us Monday, March 25th. Wind was strong enough to tear off large canvas from hay stack and carry near a mile. We also had several cold days. Friday another cold blizzard hit us, but cleared up; thawed out quick. Cold nights, warm days. Sloppy under foot. Everybody sorting seed potatoes and replacing worn parts in machinery. Wheat and rye look very good, greening up well. Quotations from Lowell: Potatoes, \$1.00; eggs, 25c.—S. K. W., Apr. 1.

Saginaw (S. E.).—Spring has come at last. Several fine showers the past week with more rain today. Ground very soft and full of water. Frost about all out of ground. Wheat looking green except where ice and water killed it out on low spots. Not much doing except chores and repair work. Election over with, with a heavy vote polled. Results did not improve matters any here. Quotations from Birch Run: Wheat, \$1.54; corn, \$1.00; oats, 60c; beans, \$9.60; potatoes, \$1.10; butter, 50c; eggs, 26c.—E. C. M., Apr. 5.

Sanilac.—Farmers anxiously waiting for ground to settle. Fine April showers. Wheat looking fine. Good acreage was sown here. No one likes to hear beans mentioned; one wonders when they will quit soaring. Hay scarcely worth bailing; some will hold it over. Grass seed being sown. Sweet clover cheap. Roads very bad. Repairing fences, trimming orchards is about all that is being done here. Quotations from Decker: Wheat, \$1.56; corn, 90c; oats, 65c; rye, \$1.10; beans, \$9.50; potatoes, \$1.10; butter, 50c; eggs, 24c.—A. C. McK., Apr. 5.

Luce.—Farmers not doing much. Bringing in a few potatoes; \$1.50. Eggs, 40c; butter 50c. Snow nearly all gone in clearings. Raining today for the first this spring. Rivers not open yet so water is high.—Mrs. O. L., Apr. 5.

Midland.—Heavy thunder storm we had followed by fierce snow and wind storm left ground in bad shape and still there remains lots of snow. Nothing doing on the dirt roads and that is why we have to walk to town. Quotations from Midland: Wheat, \$1.54; corn, 90c; oats, 61c; rye, \$1.11; beans, \$9.10; potatoes, 90c; butter, 48c; eggs, 25c.—B. V. C., Apr. 1.

Montcalm.—Lots of moisture. Roads have been almost impassable for cars. We will all be glad when spring comes to stay. Auctions quite numerous. Cattle going high. Lots of flu and pneumonia around here. Some seeding hurt to an extent. Quotations from Stanton: Wheat, \$1.46; corn, 50c; oats, 60c; rye, \$1.00; beans, \$7.50 to \$8.00; potatoes, \$1.10; butter, 50c; eggs, 23c.—Mrs. C. T., Apr. 2.

E. Huron.—Heavy sleet storm broke phone poles by the score since last report. Fair and warm. Gravel roads broken

thru on silty spots. No serious crop damage reported. Seed grain at sales bid up far above market quotations. Hard to get acreage for beets. Ground suitable, naturally fertile, getting scarce. Some land changed owners, without buildings at \$25.00 per acre; on county road, appraised 1926 at \$50.00 per acre. Ordinary taxes \$1.25 per acre. All level clay loam, 40 years cleared. Quotations from Bad Axe: Beans, \$9.00; milk, \$1.90.—E. R., Apr. 2.

Genesee.—The snow is rapidly disappearing that fell during the storm last Friday. The weather being now very warm. Fields are too wet for very much manure drawing. Dairy cattle are still bringing high prices at auctions. Maple syrup has been made in good quantities. Many farm families are buying their spring chicks. Quotations from Flint: Wheat, \$1.54; corn, \$1.00; oats, 70c; rye, \$1.08; beans, \$9.35; potatoes, \$2.15; butter, 52c; eggs, 30c.—H. S., Apr. 2.

Shiawassee (N. W.).—Warm rain last night; roads in bad condition; sweet clover heaved very bad; other seeding good; feed getting scarce. Big acreage of sweet clover and oats intended; ground too wet to work, but every one ready as soon as conditions permits.—G. L. P., Apr. 5.

CRAWFORD AGENT DIES

R. D. Bailey, county agricultural agent in Crawford county since July 1, 1921, died April 3. Mr. Bailey was the owner of a farm near Gaylord, and the theories which he preached to the farmers of Crawford county were carried into successful practice on his own farm.

Mr. Bailey's long residence in northern Michigan and his first hand acquaintance with the natural resources of the section lent weight to his optimistic prophecies for the future of the cut over sections. His death removes a leader whose place will be hard to fill.

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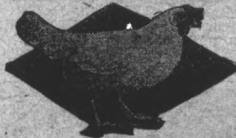
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In upper Wisconsin, the best dairy and general crop state in the Union, where the cow is queen. The Soo Line Railway is selling out over land in the rapidly growing dairy sections at low prices. Liberal contracts, fifteen years to pay. Ask for booklet 50 and about homeseekers rates.

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It costs just as much in time, labor, and seed to get poor crops as it does to get good ones. It's entirely a matter of proper cultivation.

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Look at the high-arched tooth which the center hitch buries into the ground at exactly the right draft. Complete flexibility of frame causes a hinging action on the teeth protecting them against breakage and preventing accumulating of rubbish from the field. Chrome vanadium steel in teeth and high carbon steel in body make an implement without an equal.

Big Success in Michigan

Every year sees more of these sturdy general cultivators and quack grass diggers in use in this state. They are proving to be exactly suited for soil conditions of this state.

Learn all about this cultivator for your crops' sake. Write distributor or direct to factory now!

W. J. HARDY, Deckerville, Mich.
Distributor
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"The Original Quack Grass Digger"

Please send me information of the KOVAR Cultivator.
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A SMILE OR TWO

HERRING OR COD

Two English East Coast fishermen were arguing about arithmetic. Finally, the skipper proposed a problem.

"If ye sold one hundred and twenty pounds o' cod at ninepence a pound," he said, "how much would ye make on't?"

They worked away with pencils and paper, but neither appeared to get very far into the reckoning.

"Is it cod, ye say?" asked one, turning to the skipper.

"Yes," was the reply.

"Drat it!" exclaimed the hand in disgust! "That's the reason I can't get an answer. Here have I been a-figurin' on 'herrin' all the time!"

WHEN GREEK MEETS GREEK

Gentleman in Street Car: "S-s-say, c-c-can you t-t-tell m-me what t-the n-next s-s-street is?"

No answer from second gentleman.

First gentleman: "A-a-a-I asked you what t-t-the n-next s-s-street is."

No answer, whereupon the first gentleman gets off.

Third gentleman: "Why didn't you answer that man when he asked you what the next street was?"

Second gentleman: "D-d-d-do you th-th-think a-a-a-I want t-t-to g-get m-my h-h-head kn-n-ocked off?"—National Nut News.

EXPLAINED

"Oh, what a strange looking cow!" exclaimed a sweet young thing from Detroit. "But why hasn't it any horns?"

"Well, you see," explained the farmer, "some cows is born without horns and never has any, and other shed theirs, and some we de-horn, and some breeds ain't supposed to have horns at all. There's lots of reasons why some cows ain't got horns, but the big reason why that cow ain't got horns is because she ain't a cow—she's a horse."

DOUBTFUL HIMSELF

The respondent was being examined in lunacy proceedings.

"Who was our first president?" asked his counsel.

"Washington."

"Correct. Who was our second president?"

"John Adams."

"Correct."

Then there was a pause.

"He's doing well," whispered a friend of the lawyer. "Why don't you keep on?"

"I ain't sure who was third president myself."

DOUBLED UP

Summer Boarder: "But why are those trees bending over so far?"

Farmer: "You would bend over, too, miss, if you were as full o' green apples as those trees are."—The Outlook.

ECONOMICAL

Old Farmer Tightmoney wasn't exactly stingy, but mighty economical. One day he fell into the cistern. The water was over his head and cold, but he could swim. His wife, attracted by his cries, yelled excitedly down to him, "I'll ring the dinner bell so the boys will come home and pull you out."

"What time is it?" the farmer called up.

"Bout eleven o'clock."

"No, let 'em work till dinner time. I'll just swim around till they come."

SHE WAS WRONG

"How did you come to fall in?" inquired the old lady of the little boy who had fallen into the creek and had just been rescued.

"Aw, I didn't come to fall in," he replied. "I come to fish."

TWO DIFFERENT THINGS

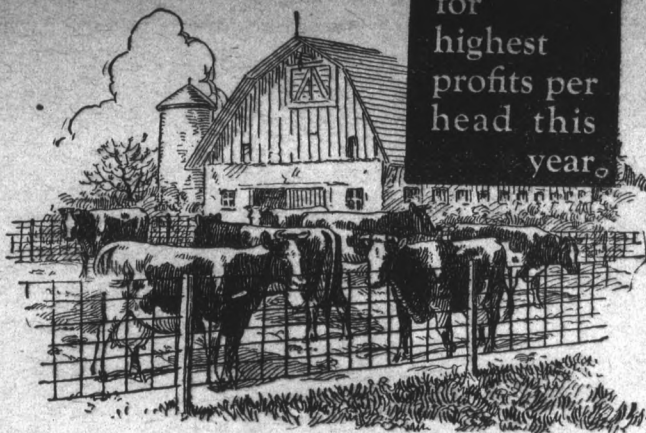
Farmer Jones: "How long has your hired man been working for you?"

Farmer Smith: "Oh, about ten days."

Farmer Jones: "Is that all? Why I thought he had been with you longer than that."

Farmer Smith: "He has been with me about three months, but he's only worked about ten days altogether. The rest of the time he's been loafin'."

Dirty wallows and mud-holes contribute to worms in hogs.



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highest
profits per
head this
year.

Beware of Early Spring Pasture!

Thousands of farmers have discovered that it pays to wait until grass is 6 to 8 inches high before turning out their cows. Even then, early grass cannot take the place of a good winter grain ration—for soft, lush grass is over 80% water.

Make more money this year.

Keep your cows on full winter feed until your pasture gets a good start. See that they get plenty of protein, quality of protein, a regulator for their systems, by feeding Linseed Meal. Send for free booklet containing practical dairy rations for spring feeding.

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L. M. E. C. 1928

PLEASE! When you write for information be sure to sign complete name and address so that we can get the information to you by an early mail. If we use the questions and answer in our columns we will not use your name, or even your initials if you do not want us to.

The Business Farmer, Mt. Clemens, Mich.

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Easier
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\$5 Down After FREE TRIAL

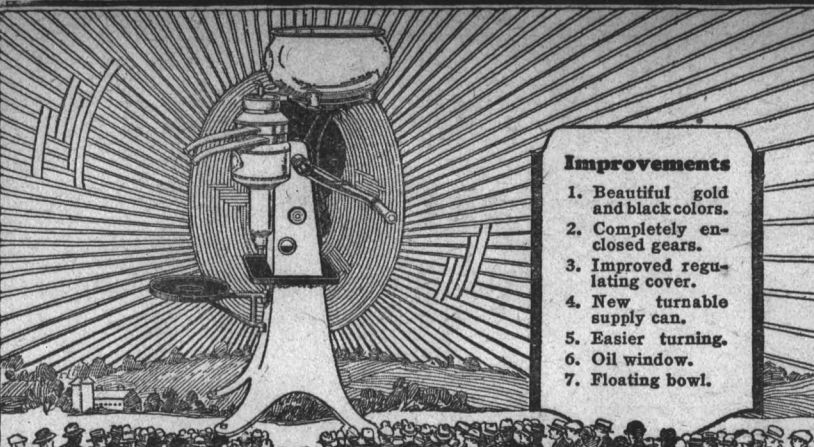
This special FREE TRIAL offer is good only until we have an agent or salesman in your locality. So don't wait. Here's your chance to save money and find out what this amazing new 4-Cow Milker will do for you on FREE TRIAL.

You pay nothing down. Then if you want to keep the Page Milker, you pay only \$5 after the FREE TRIAL and the balance on easy monthly terms. Send the coupon below for our FREE TRIAL Offer and our FREE Milker Catalog today. Catalog shows our entire line of Gas Engine, Electric and Hand power milkers in sizes for herds of 6 cows and up.

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Please send me your FREE BOOK containing the facts on milking machines and full details of your free trial, easy payment offer on the Portable Page Milkers.

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Improvements

1. Beautiful gold and black colors.
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4. New turnable supply can.
5. Easier turning.
6. Oil window.
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Golden Anniversary Series
*New! Beautiful! Easy Running!
Efficient! Durable!*

ALL who have had an opportunity of seeing and trying the new 1928 50th Anniversary "Golden Series" De Laval Separators unhesitatingly pronounce them the finest separators that have ever been made.

They are finished in gold and black colors, which are beautiful, durable and practical. They are nice enough to put in the parlor, but thoroughly practical in the dairy or barn.

All gears on these 50th Anniversary De Laval are completely enclosed and protected, insuring maximum durability.

A new type of regulating cover and float affords a flow of milk from the supply can of the separator in a smooth, even stream, without spattering.

You will appreciate the turnable supply can, which permits bowl and covers to be removed or put in place without lifting the supply can from its position.

The "Golden Series" are also easy to start and turn, and require less power to

operate, for the work they do, than any other separator now made.

By looking through the oil window on the "Golden Series" you can see at a glance just how much oil your separator has, and what condition it is in.

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But the best way to appreciate the "Golden Series" is to see and try one yourself. Your nearest authorized De Laval Dealer will gladly show and demonstrate one for you. Sold for cash or on easy terms or monthly installments so that they will pay for themselves. Trade allowances made on old separators of any age or make.

See your nearest authorized De Laval Dealer about information on De Laval Separators and Milkers, or write nearest office below.

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50TH
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De Laval First in 1878
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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.

CLAIM YOUR SALE DATE

To avoid conflicting dates we will without cost, list the date of any live stock sale in Michigan. If you are considering a sale advise us at once and we will claim the date for you. Address Live Stock Editor, M. B. F., Mt. Clemens.

April 18.—Holsteins—Joseph H. Brewer, Grand Rapids, Mich.
May 22.—Holsteins—Mich. Holstein-Friesian Ass'n, J. E. Hays, Sec'y, East Lansing, Mich.

CATTLE

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SPLENDID GUERNSEY BULL 10 MONTHS
Sire Westview Ultimas. Dam finishing 600 pound record. Other calves Langwater breeding. Priced reasonable.

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FOR SALE POLLED SHORTHORNS, BOTH SEX
of herd heading merit. We know that you will be pleased with what we have. Prices reasonable, and we stand squarely behind any guarantee we make. Herd headed by Royal Peer No. 21473 and Meadow Marshall No. 1351676.
BRANCH CO. FARM,
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DAIRY and LIVESTOCK

(We invite you to contribute your experience in raising livestock to this department. Questions cheerfully answered.)

MORE HEAVY LAMBS

IN our March 3rd issue we published a short item about a lamb being born on a farm in Midland county that weighed 13½ pounds at birth, and we asked our folks if any of them could beat it. Could they? Well, four of them came right back at us and beat it four ways for Sunday. And now we are publishing four more letters commenting on the records established and giving some more record weights. Are there any more that we haven't heard from?—Editor.

Dear Editor: I note in M. B. F. under heading "Some Heavy Lambs" some extraordinary weights of lambs at birth. Will say that John Cramers' buck lamb weighing 19 pounds at birth is the heaviest that I ever heard of.

I also have a record hard to beat. I had a registered Hampshire ewe give birth to a set of triplets weighing 14, 12½ and 9 pounds respectively, making a total of 35½ pounds. I also had another Hampshire ewe give birth to three weighing 30½ pounds.—E. F. Goodfellow, Clinton County.

Dear Editor: Was reading your Dairy and Livestock in March 31st issue and noticed some fine records in regard to lambs, but I can go Mr. Clemens, of Ogemaw county, one better. Mr. Clemens' twin buck lambs weighed 24½ pounds when born. On March 6th, 1927, one of my Shropshire ewes gave birth to twin ewe lambs weighing 25¼ pounds at birth. Yours for fine sheep.—H. W. Geiger, Ionia County.

Dear Editor: We read about other lambs so will tell you of our record. How is this for a buck lamb? It was born February 15th and weighed 20 pounds. On April 1st it weighed 51 pounds. We like the M. B. F. very much.—J. E. Puncher, Allegan County.

Dear Editor: I note in the M. B. F. about the weight of lambs. I have a female lamb 21 days old that weighs 35 pounds.—John Zanto, Ionia County.

EATON FARMERS FINISH FIFTH YEAR OF TESTING

HANS KARDEL of the South Eaton Dairy Herd Improvement Association, known as the association with a waiting list, has finished the fifth year of testing association work.

A summary of the five years work shows that 181 unprofitable cows were sold or disposed of as unprofitable dairy cows.

Evidence is again at hand that good feeding and management pays. One of the leading herds has a feed cost average of \$127.00 and the income over feed cost was \$167.00 per cow. One of the lowest producing herds showed a feed cost of \$74.00 and the return over cost of feed per cow was \$57.00 per cow.



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Read this complete brief course if you want more dairy profits—Written by expert formerly with University of Wisconsin. Tells you everything you need know to increase profits 20%—Costs but \$1.00—Worth 20 times that much—Written in easy understandable language—tells you just what to do—brief but complete in every detail.

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Do not send any money—Just your name and address—Postman will collect \$1.00 plus few pennies postage—Remember if after you have read it you are not delighted and helped by this wonderful course we will give you back your money right away.

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Jersey Bulls and Heifers

Age 5 mos.; Fawn color. Dam producing at 2 years 899.5 lbs. fat. Age 6 mos.; Gray Fawn. Dam producing 540 lbs. fat. Age 4 mos.; light Fawn. Dam producing 500 lbs. fat. Sire: Prize winning Majesty bull. One cow 4 years old, Fawn color 356 lbs. fat at 2 years old, due March 1, 1928. Two bred heifers due in September and November. One is light and other dark. Bred to prize winning bull.

QUY WILBUR :: :: BELDING, MICH.

SWINE

O. I. C.'S. GOOD GILTS TO FARROW IN April and May, last fall pigs not akin to this spring pigs. OTTO SCHULZE, Nashville, Mich.

REGISTERED DUKOR JERSEY PIGS FOR sale, either sex. Six to eight weeks old \$10.00 each. F. O. B. Millersburg. They are nice ones. DEWEY HARTLEY, Millersburg, Mich.

HORSES

FOR SALE A FIVE YEAR OLD REGISTERED Black Percheron stallion. A good one. J. B. SIMPSON, Charlotte, R. 10, Mich.

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If you want a stallion or a pair of mares write us. We will help you find them. Send for the 1928 Percheron Review. Free. Address PERCHERON SOCIETY OF AMERICA Ellis McFarland, Secy. Union Stock Yards, Chicago

PRODUCTION SALE OF REGISTERED HOLSTEINS

WEST MICHIGAN FAIR GROUNDS, GRAND RAPIDS
Wednesday, April 18th, 1:00 P. M., Daylight Saving

11 of the females have official records from 20 to nearly 25 pounds.
38 head of cows and heifers, 7 young bulls.
8 are daughters of A. K. S. Model Pietje.
8 others are bred to this great Sire whose 7 nearest Dams average 38.38 pounds in 7 days.
7 others are bred to Blythefield Sir Bess Ormsby.

Send for Catalog of the Sale
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Get Your Dinner on the Grounds

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There are a number of pure bred Holstein calves available at State Institutions at reasonable prices.

WRITE FOR DESCRIPTIONS

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Used by hundreds of thousands of farmers regularly for all kinds of animal sores, and household healing. Try it. Big 10-ounce package, 60c at feed dealers, general stores, druggists. Mailed postpaid if hard to obtain locally. Booklet, "Dairy Wrinkles" sent free.

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Veterinary Department

Edited by DR. GEO. H. CONN
(Questions gladly answered free for paid-up subscribers. You receive a personal letter.)

TROUBLE IN FEET

I am writing in regard to a horse I have. I just bought this horse and she seems very sore. I do not know if it is in her feet or in her shoulder. Could you tell me the best thing to do for her, if it is in her feet, or what to do if it is her shoulder?—L. T., Lyons, Mich.

HORSES do not get soreness in the shoulders as you describe, although many people believe that they do; this trouble is in the feet. The only thing to do is to keep the feet as soft as possible at all times, and standing them in mud will do this as well as anything, or tying an old burlap sack around each foot and keeping it wet with cold water. Keep this horse shod when working it.

WARTS AND RING WORMS

Can you tell me what is good for warts on cows' teats? What is good for ring worms on cows? I bought a cow at a sale and she has two sores on her face, I think they are ring worms.—B. L., St. Charles, Mich.

GIVE this cow a tablespoonful of Fowlers' solution of arsenic night and morning on the feed, and paint the teats with the same solution after each milking. For the ring worms either tincture of iodine or mercurchrome two per cent solution, painted on once each day will bring about a cure in a few days.

FEED TANKAGE AND BONE MEAL

We have eight pigs thirteen weeks old that are eating good but don't move around much. They are lame and we notice their toes are turning black. One of them turns its front feet under when it walks. We have been feeding them middlings and milk. We also gave them a bath but they don't seem any better. We would like to know what we could do for these pigs.—G. R., Cedar Springs, Mich.

GET some tankage and with each one hundred pounds of it mix fifteen pounds of bonemeal; give pig one quarter pound of this mixture night and morning in the milk you are now using. Also give each pig a tablespoonful of cod liver oil. Give this night and morning also. Give them a small bunch of alfalfa or clover hay each day if you have it. Your pigs have rickets, and the only thing to do is to make these changes in their feeding. Please report how long it takes to bring about recovery in them.

BREWER HOLSTEINS MAKE RECORD

TWO pure bred Holstein cows owned by Joseph H. Brewer of Grand Rapids, have just completed very creditable records for butter and milk production.

Celia Cornucopia Segis produced 28.44 pounds of butter and 608.3 pounds of milk in seven consecutive days.

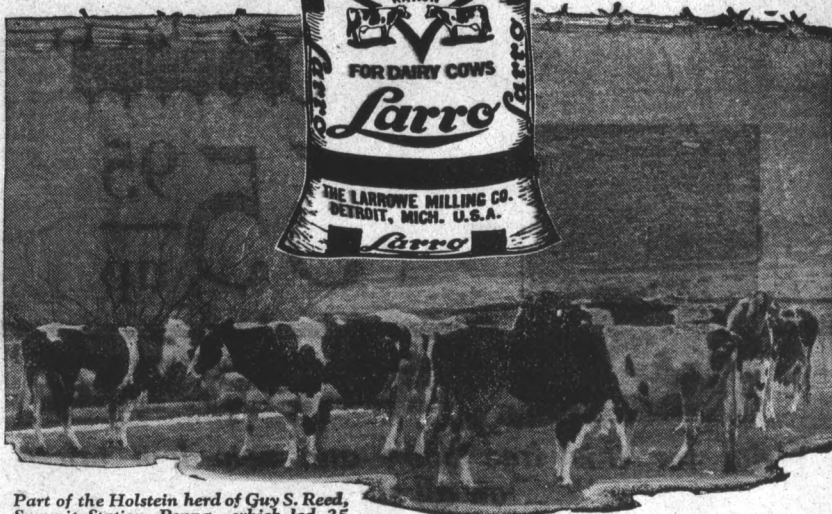
Blythesfield Canary Nig Cornucopia produced 29.67 pounds of butter and 638.3 pounds of milk in seven consecutive days. Her best day was 96.4 pounds of milk. If a pint is a pound the world around, this cow produced nearly one hundred pints of milk in one day. The tests were conducted by an official of the dairy husbandry department of Michigan State College. The two cows making these good records are in the herd to be sold at public auction April 18th at West Michigan State Fair Grounds, Grand Rapids.



TWIN CALVES

"I am sending you a picture of our twin calves," writes Lydia Martin, of Charlevoix county. "They were a month old when this was taken. Their mother was seventeen years old when they were born."

Guy S. Reed Made \$167⁵⁸ Profit PER COW



Part of the Holstein herd of Guy S. Reed, Summit Station, Penna., which led 25 other herds in milk production.

HIGH herd in milk production, third high herd in butterfat and a profit of \$167.58 per cow over and above all feed costs, is what the figures of the Schuylkill County Cow Testing Association for the year ending April 1, 1927, show for the Larro-fed Holstein herd of Guy S. Reed, Summit Station, Pennsylvania.

The average production per cow was 10,809 lbs. milk, 353.1 lbs. fat and the milk was sold at wholesale.

That's the kind of evidence to go by when selecting a dairy ration. Get the actual figures and look at the profit left over when the feed bill is paid.

Even if Larro should cost more than your present ration, you'll find that the extra-profit more than pays the difference—so much more that you really can't afford to feed a low priced ration.

The best time to see for yourself what Larro will do is right now! Change over gradually, being careful to feed enough pounds of Larro as it is light and bulky. You'll find it is more than just a milk producer. It keeps cows in good flesh. It builds health and condition. It makes them live longer and make more money for you at the same time than any other ration you can feed.

THE LARROWE MILLING COMPANY
Detroit, Mich.

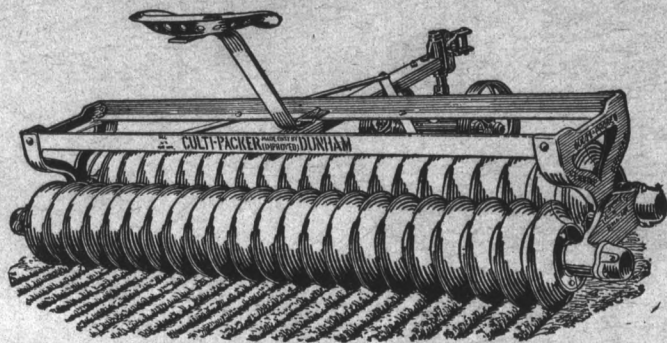
Larro

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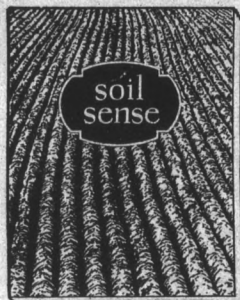
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Years of Breeding for Higher Egg Production has placed Michigan Poultry Farm Stock on a high standard of quality.

It has been quickly proven this year among the 500 White Leghorns we are trapping on our own farm, a large part of the entire flock averaging 24 to 30 eggs monthly during the winter months. This breeding quality spells poultry profits for you.

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If you desire our 1928 Catalog before you buy, send for it quickly. Orders are rapidly filling up our shipping dates for April and May deliveries. Better check below the chicks you want and send us your order NOW.

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PAY ONLY \$1.00 DOWN — BALANCE C. O. D.

Order Direct At These Prices	50	100	500	1000
Trapped Pure Hanson Strain				
S. C. White Leghorns	\$8.00	\$15.00	\$72.50	
Barron and Tanager Foundation				
S. C. White Leghorns	6.50	12.00	57.50	\$110.00
Sheppard's Strain Anconas	6.50	12.00	57.50	110.00
Barred Plymouth Rocks	7.50	14.00	67.50	130.00
Broilers, Mixed	4.50	8.25	40.00	78.00
Seconds, (No Cripples)	4.00	7.00	\$5.00	70.00

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Service PURE BRED BABY CHICKS Quality
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Prepaid Prices for	25	50	100	200	500	1000
White Leghorns, Black Minorcas	\$3.50	\$6.50	\$12.00	\$23.50	\$57.50	\$110.00
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Single and Rose Comb Reds	3.75	7.25	14.00	27.50	67.50	130.00
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S. S. Hamburgs, 16c Assorted Breeds, 10c.						

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CHICKS ON RANGE

TO insure good layers next fall, keep the young birds healthy and keep them growing, advises L. M. Black, assistant poultry specialist at the New Jersey College of Agriculture. Everlasting attention to every detail should be the rule of the range during the summer months.

"The growing birds must have a constant supply of fresh water and sufficient mash hopper space must be provided," says Mr. Black. "Mash is responsible for maximum growth and it should be always available. If the birds will not eat sufficient mash in the houses, place some sheltered hoppers on the range."

"Our two great disease troubles, coccidiosis and intestinal worm infections, can be controlled only through sanitation. Clean and disinfect the houses frequently. That flies are spreaders of tape-worms cannot be overlooked and every effort should be made to discourage their presence on the range. Don't allow rubbish and manure piles to accumulate, for they furnish ideal breeding places for this pest. Treat the manure piles liberally with hydrated lime."

"Finally, attempt to adjust the mash and grain ratio so that the pullets do not come into production too early. Aim to allow five months for the growing period of Leghorn pullets. Then, before they come into a heavy lay or when they are laying about 10 per cent on range, move them to the laying pens and endeavor to get them in prime condition by feeding scratch grain heavily. Rest assured that the care and pains thus taken will be repaid, and that a flock of well-grown, healthy pullets is not only a source of profit but also of deep satisfaction."

CHATTING WITH THE AGRICULTURAL TEACHER

(Continued from Page 23)

six months old on present feed prices. He sells the hog at six months of age weighing two hundred pounds at eight cents per pound; how much money does the man make or lose? I think this is a fairly good problem and I'll wager a good number of old timers couldn't work it. The class had very little difficulty with it and I'll give you the answer as one boy found it. He is a farm boy from Owosso, who's name is Byron Jones, and a bright young fellow, who will some day make a real farmer.

From two to four months of age he fed the following ration: eight pounds middlings; six pounds barley feed, eighteen pounds skimmed milk; two and one-half pounds tankage and thirty pounds of corn. He figured the hog an average weight of eighty pounds for that period.

From four to six months of age he fed the following ration: six pounds middlings; four pounds barley feed; fifteen pounds skimmed milk; one and one-half pounds tankage and twenty-five pounds of corn. He figured the hog an average weight of one hundred fifty pounds for the second period.

The rations balance according to feeding standards, and are the amount of feed for one thousand pounds of live weight for twenty-four hours. The following prices were used which are a trifle low in some cases. Middlings two dollars per hundredweight; barley feed sixty-five cents per bushel; skimmed milk twenty-five cents per hundredweight; tankage four dollars and fifty cents per hundredweight; corn seventy cents per bushel. Cost of feed at the above prices equals nine dollars and two cents. Total cost of pig equals fourteen dollars and two cents. Total profit, one dollar and ninety-eight cents.

This problem of course is not perfect, but I should call it very good for a high school boy and it goes to show the kind of work being accomplished in the agricultural schools. The problem does not include cost of labor, insurance, etc., but from these figures we can at least conclude that if the price of hogs does not raise we shall be forced to drive our old car another year.

Keep young poultry stock free from parasites.

Eggs should be sold in clean, attractive packages.

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NEXT to the sun, the wind is the greatest power for raising water. The sun lifts a tremendous quantity of water every day which is scattered in mist to the ends of the earth. The wind, with a few simple pumping devices, will lift fresh water from beneath the surface of the ground and put it right where you can have it

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The Auto-Oiled Aermotor of today has important added improvements which make it more decidedly than ever the best of its kind.

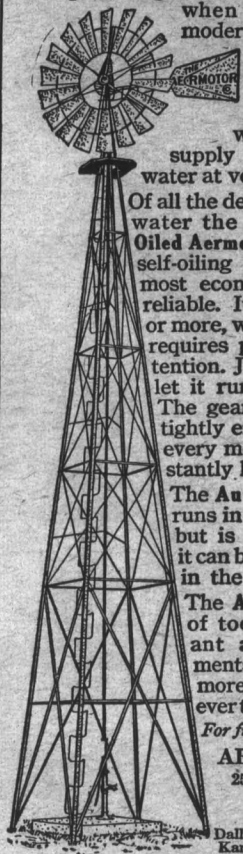
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The members of the "Poultry Disease Gang" are being hunted in every state in the country. They are dangerous "killers." Members of this outlaw gang include "Coccidiosis," "Cholera," "White Diarrhoea," "Roup."

Poultry raisers are urged to watch for these murderers—they will be found in poultry yards where no buttermilk is fed. Since Dried Buttermilk is the sworn enemy of these "killers," it is not likely you will find them if "Collis Process Pure Dried Buttermilk is on the job."

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gives ALL your chicks a healthier start. Its dependable, extra-large coal magazine store—automatically regulated—works at minimum cost for fuel and care. Its new hover is large enough to give you the capacity specified—and designed to throw an even heat to all the chicks.

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Bring your everyday problems in and get the experience of other farmers. Questions addressed to this department are published here and answered by you, our readers, who are graduates of the School of Hard Knocks and who have their diplomas from the College of Experience. If you don't want our editor's advice or an expert's advice, but just plain, everyday business farmers' advice, send in your question here. If you can answer the other fellow's question, please do so he may answer one of yours some day! Address Experience Pool, care The Business Farmer, Mt. Clemens, Mich.

LICE ON SHEEP

DEAR EDITOR:—In a recent issue I see that a subscriber from Rhodes wants to know what to do for lice on sheep. Not having his name, I will refer the subject to the paper. If they will buy Black Flag powder at any drug store, and rub it into the wool or hair thoroughly, down the back and tail, around the ears and under the legs of any animal infested with any kind of vermin such as lice, mites, etc., they will soon be free from the pest. May have to apply more than once. You can drive fleas from any dog with one application. Put him onto a paper and see them drop off. Rub it in well to the skin. It is entirely harmless to animals, but do not get it into the eyes. This Black Flag powder is useful in many ways, and will eliminate bedbugs, after the room is cleaned, and prevent return of the pests, by sprinkling all over the springs and mattress and wherever they might be. Also throw around a room where flies have congregated, and shut the doors and windows. In about 20 minutes you can sweep out the flies. The powder smothers them, and they must be thrown into the stove, as some may revive later. Use a blower to scat-

BEATS HOME TOWN PAPER

DEAR EDITOR:—I am a reader of the good old M. B. F., and I enjoy it more than I do my home town paper. To be without the M. B. F. is just like being without money.—Albert Thomas, Jr., Mason County.

ter the powder or take a spice can with perforated top. Other insects are killed by the first application. Also good for moths in furniture or rugs.

Here is another pointer that might prove useful some way. Instead of Castor oil for young stock, use olive oil. Get it at the grocery. It is the best for the smaller animals, and fine for kidneys and bladder. Also for stomach and bowels. More of an all around medicine for them, and less powerful. Cheaper besides. This is the best thing for your dog and cats if they need care. For distemper, etc. They lick it up greedily, and pets are difficult things to doctor. Put it on their food.—C. Hyde, Saint Joseph County.

WHITE WONDER BEAN

DEAR EDITOR:—I read in a recent issue of a farmer asking about the White Wonder bean. I wish to express an opinion. We raised some for the first time last year. They were a very nice bean and had a good yield for the season, as we had a very poor bean year. I counted sixty pods on one stalk. No pod had less than five and six beans in it. They were two or three weeks earlier than some other kinds. They were planted June 19, 1927, and commenced harvesting September 19. Could have harvested one week earlier but the weather was so dry and hot. They were the nicest beans we ever raised. Had about 4½ acres and got 54 bushels. Some drowned out. They were not on very good land.—E. J. K., Caro, Mich.

WANTS LETTER ON SOY BEANS

DEAR EDITOR:—Would like to have some one send in their experience raising soy beans for hay and soil building.—G. R., Stanton, Mich.

CANCER—FREE BOOK SENT ON REQUEST

Tells cause of cancer and what to do for pain, bleeding, odor, etc. Write for it today, mentioning this paper. Address Indianapolis Cancer Hospital, Indianapolis, Ind.

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You need not pay for Holland Hatchery Chicks until they arrive. Just send us \$1.00 down and we will ship C. O. D. for the balance.

Holland Hatchery Chicks prove their worth by actual test right in the hands of our customers. Fred S. Donald of Oxford, Michigan, writes: "This makes the 16th consecutive year I have ordered chicks from you and never received a bum lot." You too can have this kind of satisfaction if you will get some of Holland Hatchery Michigan Accredited Chicks.

Prices effective May 1st		SEE THESE LOW PRICES		
White Leghorns (English Type)	100	500	1000	
White Leghorns (Special Mated)	\$10.00	\$47.50	\$90.00	
S. C. Mottled Anconas	12.00	57.50	110.00	
Barred Rocks	10.00	47.50	90.00	
Mixed Chicks	14.00	65.00	120.00	
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Of course, we guarantee 100% live delivery and will stand squarely behind every shipment. You will find the chicks pure bred and exactly as represented. Every chick is Michigan Accredited and comes to you under the label of the Michigan State Poultry Improvement Association. Buy Holland Hatchery Michigan Accredited Chicks this year. Our free catalog tells all about them.

Holland Hatchery & Poultry Farms
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Buy your chicks from heavy laying flocks that are officially accredited by inspectors supervised by Michigan State College and of prize winners at the Holland Poultry Show having the best display on Barred Rocks in the production class. White and Brown Leghorns, Anconas, Barred Rocks, S. C. R. I. Reds. 100% live delivery postpaid. Send at once for free catalogue, full particulars and detailed prices.

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Baby Chick Life Insurance plan guards you against many losses. "State Farms" Chicks are from healthy, bred-to-lay stock. White and Brown Leghorns, Barred and White Rocks, Reds and White Wyandottes, Ducks, Geese and Turkeys. Get free Catalog. STATE FARMS ASSOCIATION, 307 North Rose Street, Kalamazoo, Michigan.

HILLSIDE HATCHERY

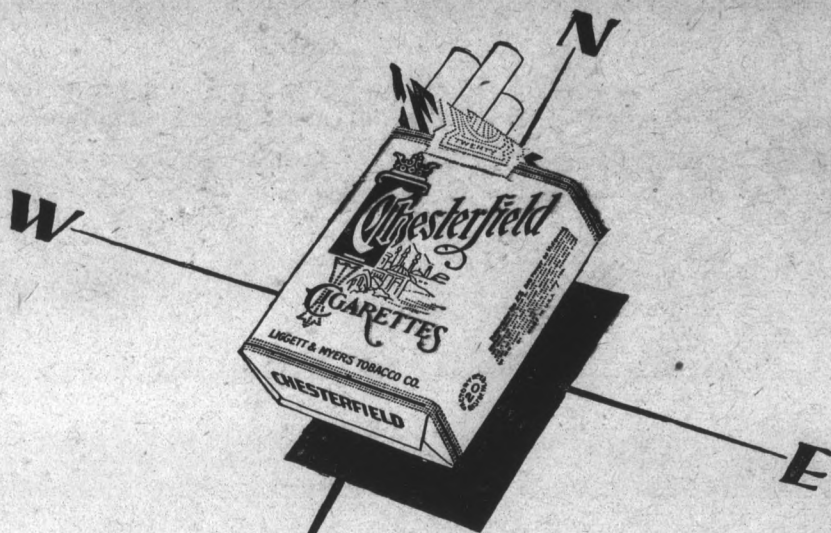
CHICKS Genuine Tom Barren English White Leghorns, large type over-laying combs with egg laying qualities. Non Setters Barred Rocks from M. S. C. stock. 1928 flocks headed with cockerels whose dams have official trap nest records 203-233 M. S. C. Egg Laying Contest. Free circular explaining our 1928 Special, surprising you, low price.

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New York, March 28th, 1928.
The Board of Directors have declared a quarterly dividend of Sixty Cents (60c) a share on the Common Stock of this Company, payable May 15th, 1928, to Common Stockholders of record at the close of business, May 1st, 1928. Checks to be mailed. Transfer books will not close.
OWEN SHEPHERD, Vice-President & Treasurer.

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Barred, White, Buff Rocks, Single and Rose Comb R. I. Reds, Black Minorcas, 12% c. White Brown, Buff, Leghorns, Anconas, Heavy Broilers, 1 1/2 c. White and Silver Laced Wyandottes, Buff Orpingtons, White Minorcas, Buff Wyandottes, 15c. Light Brahmas, White Orpingtons, Blue Andalusians, 12 1/2 c. Light mixed, 8c. Grade AA Chicks 5c per Chick extra. If less than 100 are ordered, add 50c extra. After April 18th, \$1.00 per 100 less. Free Circular on

CHICKS FROM R. O. P. MALE MATINGS

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DILIGENT CHICKS DID IT And will do it for you

At DILIGENT we are always aiming to see how much we can give you for a dollar instead of how little. After May first we have ready for shipment several thousands of DILIGENT Pullets. They go for \$85.00 per hundred. We have some folders yet for the asking, get one, and let us get better acquainted. Our new prices for Chicks are as follows:

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Single Comb White Leghorns	\$6.75	\$8.00	\$17.50	\$42.50
Barred Plymouth Rocks	6.25	12.00	23.50	57.50
S. C. Rhode Island Reds	6.25	12.00	23.50	57.50
Mixed (All Heavys)	5.25	10.00	19.50	47.50

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Death loss stopped in few hours, and sick chicks full of pep.

Simply drop an Avicol tablet in the drinking water, and watch the dying chicks revive and begin to thrive. Mrs. E. E. Franks, Rasmussen, Tex., writes: "I was losing 10 to 15 chicks a day before the Avicol came. I haven't lost one since."

Used in time, it prevents the whole trouble at trifling cost. A mild, safe intestinal antiseptic that controls all bowel diseases in chicks. Entirely different from anything you ever tried. Money back if not satisfied. Send 50c for liberal package (or \$1 for large economy size) to Burrell-Druggist Co., 325 Postal Station Bldg., Indianapolis, Ind.

ONE WOMAN DELIVERS FIVE CHICKEN THIEVES TO SHERIFF

HERE is the story of a brave and courageous woman—Mrs. Wesley Taylor of Rodney, Mecosta County.

Not long ago five big husky brave men (?) walked up in front of Mrs. Taylor's home and four of them waited in the road while the hero of the group went on into Mrs. Taylor's yard and deliberately shot some of her turkeys from out of a tree where they were roosting. Mr. Hero started to pick up the turkeys and make his departure when Mrs. Taylor appeared on the scene. Then things began to happen. Five men ran up the road, across a field and on into the woods where they were camping, all because one woman full of courage and righteous indignation, was as close on their heels as she could be—and reports have it that Mrs. Taylor is some runner.

She finally overtook two of the men and asked them their names and where they lived. These brave fellows soon told her where she could go, as far as their names and addresses were concerned, and that she could start there at once. But Mrs. Taylor didn't feel inclined to follow their instructions—she was going to lead this little band of outlaws herself and if they didn't want to talk to her why she knew of someone they would talk to.

Mrs. Taylor took the license numbers from their cars, then rushed to a nearby telephone and called three neighbors who hurried to the scene just in time to block their cars across the only road of escape for the thieves. In this manner they held the men until Sheriff Kanehl arrived. The Sheriff didn't lose any time but immediately hauled the men into Court where they pleaded guilty. Every mother's son of them were given a heavy fine and finally sent on their way much wiser for their experience with one woman they couldn't bluff for a minute.

We are happy indeed to pay Mrs. Taylor one of our \$50 rewards. Mr. Taylor was sick at the time of the robbery and the burden of "carrying on" was left entirely upon Mrs. Taylor's shoulders. We know that these five thieves together with 99,999 other readers of BUSINESS FARMER will agree that Mrs. Taylor was more than capable of carrying the load during her husband's illness. If we had more women and men too, if you please, like Mrs. Wesley Taylor, it wouldn't be long before rural thieves in Michigan ceased their operations. The moral of this little story is—how far would you go out of your way to chase a group of chicken thieves? We have plenty of folks who are willing to talk about it, but there is a noticeable shortage of folks like Mrs. Taylor who "do" something about it. Think it over. —Robert J. McColgan.

HOW TO FATTEN BROILERS

AS SOON as the cockerels can be identified, they should be separated from the pullets and fed for growth until two or three weeks before they are to be marketed. Strict attention should be given to water supply, range and shade. It pays also to keep the water containers clean, as a means of avoiding spread of disease. To get the most for them they should be marketed in a well finished condition. Feed the following ration: 60 pounds of cornmeal and 40 pounds of red dog flour, moistened with sour skim-milk or buttermilk. This mixture may be fed twice a day (morning and noon). Start feeding as much of these feeds as they will clean up in about 15 minutes at a feed. Gradually increase the amount until on the fourth day they have enough to keep them busy for half an hour. The evening feed may consist of cracked corn which has been soaked in skim-milk or buttermilk for a few hours. In eight to twelve days when the birds begin to show a lack of appetite, they should be shipped or slaughtered.

It hardly pays the poultry raiser to attempt crate fattening. Confine to pens and small yards for the last two weeks.—The Farmer.

Spraying with coal tar dip helps fight red mites on poultry.

Produce infertile eggs for market purposes.

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SPECIAL OFFER—FEDERAL LAND BANK offers limited number of farms at bargain prices. Write today for new descriptions of farms in North Dakota, Minnesota, Wisconsin, Michigan. Deal direct with owner, no commissions. These farms are priced to sell—small down payments—\$200 to \$1,000—easy terms on balance. Land prices going up. Buy now at our low prices. Write to Federal Land Bank, St. Paul, Minn., Dept. 32.

FOR SALE, 160 ACRES SITUATED ON DRUMMOND ISLAND. Ideal place for hunters or sportsmen. Price very reasonable. Charles Loivonen, Drummond, Mich.

120 ACRES FARM CLARE COUNTY, 45 HAY. \$2,500. \$900 down. Fred Jacobs, 2326 Alpha, Lansing, Mich.

FOR SALE 40 ACRES WITH BUILDINGS, splendid soil. \$2,500. Mrs. Will Flansburg, Imlay City, Mich.

10 ACRES GOOD LAND NEW HOUSE 3 MILES from city, only \$3,000. F. R. Hoffman, R. 1, Port Huron, Mich.

VIRGINIA FARMS WARM WINTERS, REASONABLE TERMS. Chas. Witmer, Crewe, Virginia.

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INSURE YOUR SUCCESS—BUY ASELTIME quality Barred Rocks or White Leghorns. Pedigreed males from dams laying over 200 eggs head our flocks. Blood tested five consecutive years. Tramping 400 birds under Record of Performance supervision. Reasonable prices for this quality. Write for circular or visit our farm. Aseltine Poultry Farm, Comstock Park, Mich.

BABY CHICKS FROM KILLBOURN'S CERTIFIED S. C. White Leghorns. 1st pen 1926-1927 New York state egg laying contest, for weight of eggs. Over 700 birds entered in this year's R. O. P. work. Also Michigan Accredited Buff and Brown S. C. Leghorns. All stock Blood Tested. Killbourn Poultry Farm, Flint, Mich.

CHICKS. WE HAVE HAD EIGHTEEN YEARS experience in hatching chicks of standard varieties. We personally inspect and cull our flocks which are good producers, healthy and pure-bred. Write for prices. Special discount on five hundred and one thousand lots. Shepard Poultry Farm & Hatchery, Litchfield, Mich.

"EGG-BRED CHICKS PAY PROFITS." Strength, vitality and heavy laying. Safe delivery guaranteed. Single Comb White and Brown Leghorns, Single and Rose Comb Reds, Barred Rocks, Queen Hatchery, Zeeland, Michigan. Heavy and light mixed chicks 8c and up.

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LOOK! 150,000 CHICKS, 9c UP. 20 VARIETIES. Using many R. O. P. males from 215 to 216 egg breeding. Just what you want for large profits or to improve your flock. FREE catalog gives big discounts. Breeding cockerels, pullets. Lawrence Hatchery, Grand Rapids, Michigan.

BABY CHICKS—MICHIGAN ACCREDITED Barred Rocks, R. I. Reds, White Leghorns, shipped C. O. D. Immediate delivery of pure bred chicks from heavy laying foundations. Big free catalog gives new prices. Brummer-Fredrickson Poultry Farm, Box 80, Holland, Mich.

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BETTER BABY CHICKS FROM STATE FAIR winners production class. Eighty per cent of our chicks go to old customers. Eleven breeds. Booking orders. Living prices. Write. Litchfield Hatchery, Litchfield, Mich.

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HEYBOER'S POULTRY FARM & HATCHERY. Algonac, Mich. White Leghorns and Barred Rocks baby chicks for sale of stock that is bred for production, all breeders being trap-nested. Send for catalogue and prices.

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CHICKS—GENUINE ENGLISH WHITE LEG- horns, overlying combs and non-setters. Barred Rocks. 203-233 records. See display adv. Hillside Hatchery, Holland, Mich.

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TURKEY EGGS—FROM OUR FAMOUS PURE bred Mammoth Bronze, Bourbon Red, Narragansett and White Holland flocks. Write, Walter Bros., Powhatan Point, Ohio.

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WHITE HOLLAND TURKEYS WILL PAY your taxes in December and interest on the mortgage in February. A trio of White Hollands pay more profit than any two crows. Easier to raise than chickens, twice the profit. Get yours now. Cash in next fall. Also Pekin Ducks. Stamped addressed envelope for prompt reply. Alden Whitcomb, Byron Center, Mich.

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My alfalfa seed is pretty well sold out so you can mail me your bill for advertising.—A. F. Longpre, Curran, Mich.

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CERTIFIED WOLVERINE OATS. BRIGHT heavy yielding. Prompt shipment. Free samples. Davenport Terry & Son, Chesaning, Mich.

SEED CORN. CERTIFIED STANDARD VARI- eties. Northern grown, fire dried, thoroughly tested, guaranteed. Monro Brown Seed Co., Bay City, Wis.

REGISTERED AND CERTIFIED GOLDEN Glow Seed Corn. Germination 96%. Inspected and certified by Michigan Crop Improvement Association. Write for circular. Lawrence Crozier, Charlotte, Mich., R. 9.

SEED CORN—DUNCAN YELLOW DENT. REG- istered and certified. E. York, Three Rivers, Mich., Route 4.

REGISTERED AND CERTIFIED SEED CORN Polar Yellow dent and Jewett Yellow flint. Registered grade \$7.00 per bu., 56 lbs. shelled and graded. Certified grade \$6.00 per bu. Bu. 4 from Polar yellow dent for ensilage, \$3.50 per bu. Arthur W. Jewett, Jr., Mason, Michigan.

GOLDEN GLOW SEED CORN THAT WILL please you. Grown from registered seed, field selected before cut, raked, artificial and air dried, shelled, graded, germ 98. Price \$5.00 bushel, two or more \$4.75 bushel. Remember we sell what we grow, guaranteed as represented. Ralph G. Collin, Mt. Pleasant, Mich., R. 8.

FOR SALE—REGISTERED AND CERTIFIED Golden Glow Seed Corn. Germination 97%. Inspected by Michigan Crop Improvement Association. Write for circular. P. A. Smith, Mulliken, Mich.

REGISTERED AND CERTIFIED SEED CORN Clement's white cap yellow dent, Pickett's yellow dent and Michigan yellow dent (a very early dent). Certified Worthy oats and sweet clover. Why take a chance on common seed when our scientific method of drying and preparing our corn insures germination and vigor. Write for circular and sample. Paul C. Clement, Britton, Michigan. Member of the Crop Improvement Association. Dept. H.

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REIDS YELLOW DENT, KRUG, DeWALLS 100 Day. Grown from disease free seed for five years. Nubbed shelled and graded. \$3.50. Germination 97-100%. Guaranteed. Folder free. De Wall Seed Co. Growers, Gibson City, Ill.

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CERTIFIED SEED CORN, CLEMENT'S WHITE Cap Yellow Dent grown in Livingston county. James Catrell, Gregory, Mich.

CLOVER SEED FOR SALE—MEDIUM AND Mammoth, \$19.00 per bushel, free from noxious weeds. Alsike, \$17.00. Alsike and Little white clover about 1/2 mixture, \$15.00 per bu. Timothy seed, \$2.50. Manchus Soy Beans, \$2.50. Canadian variegated Alfalfa, \$22.00 per bushel. Idaho blackfoot Grimm Alfalfa in sealed bags, bags free, \$24.50. Northwestern Alfalfa, \$15.00. All Alfalfa 99.50 purity and better. Bags, 45c each. M. G. Stoller, Paulding, Ohio.

CERTIFIED IMPROVED ROBUST SEED BEANS Choice in every respect. One to nine bushels, nine dollars bu., ten or over, eight seventy-five. Bags free and freight prepaid Michigan on orders received before May. Acceptance of your check insures delivery by May 15th. No checks cashed before May. A. B. Cook, Owosso, Mich.

SWEET CLOVER SEED WHITE BLOSSOM cleaned Scarified Germination and purity guaranteed 95%. \$6 bushel. Monroe Bros. Essexville, Mich.

NEW YORK GROWN SEED—WELLS' LIGHT red Kidney beans, disease-resistant, productive strain. Two years' successful demonstration in Michigan. Official References. Write for sample and prices. E. F. Humphrey, Ira, N. Y.

SCIENCE AND PRACTICE DEMONSTRATE IM- proved American Banner wheat, Wolverine oats. Improved Robust beans best for Michigan. A. B. Cook, Owosso, Mich.

SWEET CLOVER SEED—YELLOW BLOSSOM. White Blossom and Grundy Co. \$6.00 per bushel, bags 45 cents each. M. G. Stoller, Paulding, Ohio.

NORTHERN GROWN CERTIFIED WHITE Rural Seed Potatoes. Good stock. F. D. Shumway, Buckley, Michigan.

NURSERY STOCK

STRAWBERRY PLANTS—DUNLOP 1000—\$3.50; Big Jim Premier Cooper 1000—\$5.00; 500—\$2.75. Cumberland Raspberry 1000—\$14.00. Fred Stanley, Bangor, Mich.

ELDORADO BLACKBERRIES—THE BEST, surest crop and most profitable known—1000 for \$15.00, 100 for \$2.00. Grape-vines ten two year \$1.00. Fifteen one year \$1.00. Eight kinds, red, white, blue, 100 two year \$7.00. Special low prices on 1000. Everything to plant. Big Nursery. List Free. Prestage Nurseries, Allegan, Michigan.

EVERGREENS—SIX TRANSPLANTED TREES \$1.00 two Juniper 2 Arbor-Vita, 2 Spruce. All 5 to 12 inches. Hardy, grow anywhere, any soil. Seven either kind \$1.00. Best bargain of year. Other kinds all sizes. Sure to live. Shipped right. Get acquainted—List free. Prestage Nurseries, Allegan, Michigan.

THE BEST IN CERTIFIED RASPBERRIES, Blackberries, Strawberries, Gooseberries, Grapes, Cherries, Apples, Asparagus, Rhubarb, Ornamentals. What varieties do you want? How many? Get our prices. Harris Cross Nurseries, Bangor, Mich.

STRAWBERRY PLANTS—TWENTY-FIVE VA- rieties. Finest plants grown. We prove it. Mastadon Big new Everbearer—100 for \$2.50. Champion Everbearing Best flavored strawberry in all the world—100 for \$1.50. 100 Premier (June) for \$1.00—1000 for \$8.00. 100 Warfield and 100 Dunlop for \$1.00. 1000 \$4.00. Order now. Complete Nursery list—everything to plant free. Prestage Nursery, Allegan, Michigan.

NUT CROPS—FROM GRAFTED NUT TREES bring big money. Better than life insurance. Use this ad. to bring our instructive and educational catalog to you immediately. John W. Hershey, Nut Tree Nurseries, Downingtown, Pa.

PLANTS—STRAWBERRIES \$3.00, 1,000: 100 Mastadons, \$2.00; Raspberries, Blackberries, Grapes. Wholesale price list. Cloverleaf Nursery, Three Oaks, Mich.

100 MASTODON EVERBEARING \$1.75. World's Largest Strawberries. Last Chance. Order Today. Edwin Libke, New Buffalo, Mich.

PLANTS

C. O. D. FROST PROOF CABBAGE AND ONION Plants. Quick shipments. All varieties 500, 65c; 1,000, \$1.00. Farmers Plant Co., Tifton, Ga.

COPENHAGEN, WAKEFIELD, FLAT DUTCH, frostproof Cabbage plants, \$1.00, 1,000; Bermuda Onion, \$1.00. Tomato, \$1.00; Collard, \$1.00; Ruby King Pepper, \$2.00; Porto Rico Potato, \$1.75. Good plants, carefully packed. Prompt shipments. Quitman Plant Co., Quitman, Georgia.

MY FROST PROOF CABBAGE PLANTS WILL make headed cabbage three weeks before your home grown plants. I make prompt shipments all leading varieties. Post paid 500, \$1.50; 1,000, \$2.75. Express \$2.00, 1000. Special prices on large quantities. Tomato and pepper plants same price. First class plants, roots wrapped in moss. P. D. Fulwood, Tifton, Ga.

SEND NO MONEY. C. O. D. FROST PROOF Cabbage and Onion Plants. All varieties. Prompt shipment 500, 65c; 1,000, \$1.00. Standard Plant Co., Tifton, Ga.

LIVESTOCK

HEREFORD STEERS FOR SALE, 2 CARS average 525 lbs., 109 average 620 lbs. \$9 average 760 lbs. 2 cars tested heifers. Know of others. John Carrow, Ottumwa, Iowa.

GUERNSEY OR HOLSTEIN HEIFER CALVES, tuberculin tested, shipped C. O. D. Lakewood Farm, Whitewater Wis.

TOBACCO

GUARANTEED HOMESPUN TOBACCO—CHEW- ing 5 pounds, \$1.25; 10-\$2. Smoking 10-\$1.50. Pipe free! Pay postman. United Farmers, Bardwell, Kentucky.

TOBACCO; KENTUCKY SWEETLEAF. MEL- low, Aged. Smoking 10 pounds \$1.40. Chewing \$1.75. Pay when received. Kentucky Farmers, Prysburg, Kentucky.

MACHINERY

FOR SALE MONITOR 4 ROW SUGAR BEET drill nearly new. C. O. Bately, Fennville, Michigan.

PET STOCK

MAKE BIG PROFITS WITH CHINCHILLA Rabbits. Real money makers. Write for facts. 884 Conrad's Ranch, Denver, Colorado.

WHY WORRY ABOUT CHICKEN THIEVES? Buy a German Police puppy. H. S. Peter, Burt, Mich.

PURE-BRED FLEMISH GIANT RABBITS, UN- related pair, 3 months old, \$4.50. Leonard Norton, Three Rivers, Mich., R. 3.

LIVE STOCK

REGISTERED PERCHERON STUD COLT, coming 2 years old. A good one. Arlo E. Bash, Forest, Ohio.

HELP WANTED

TEACHERS FOR SUMMER MONTHS; VALU- able teaching experience. Must be able to work without supervision; loyal, conscientious and ambitious; generous salary. Write Educators Association, Francis Palms Bldg., Detroit, Mich.

MISCELLANEOUS

BUY DIRECT FROM MANUFACTURERS. ONE barrel dishes. Not less than 100 pieces. Contains not less than 12 cups, saucers, all sizes plates, oatmeal, sauce dishes, platter, sugar, creamer, etc., \$5.50. Factory imperfections. Same on decorated, \$9.00. Barrels unlimited. If freight is over \$1.00, we pay the difference. Shipped free from our warehouses, Boston or New York. United China, Inc., Dept. 440, Boston, Mass.

FARMERS' "EVERY-DAY-PAY-DAY-PLAN"—Mr. Farmer, why worry? You can make \$30 to \$150 weekly distributing Whitmer Products to your friends. Experience unnecessary. We teach you how free. Earn while learning. Team and wagon or car needed. Write T-O-D-A-Y for farmers' "Every-Day-Pay-Day-Plan." The H. C. Whitmer Company, Farm Dept. 6A, Columbus, Indiana.

300 FULL SIZE, UNRULED LETTER HEADS and 300 good white envelopes, all neatly printed with name, address and business. Two Dollars, postpaid. Suitable for Farmer, Business Man and all others. Money back if wanted. Shipping tags, Statements, Cards, etc., equally low prices. The Braytons, Freeport, Mich.

FARMERS WOOL MADE INTO BLANKETS, batting and yarn at fair prices. Send for circulars. Monticello Woolen Mills, (Estab. 1864), Monticello, Wisc.

EARN \$5 A DAY GATHERING EVERGREENS, roots, herbs. Booklet free. Botanical 67, New Haven, Conn.

CAN YOU SELL HOUSE PAINT AT \$1.98 PER gallon and barn paint at \$1.30? Lowest prices in America. Beat all competition, dealers and mail order houses. Money back guarantee to every customer. Experience unnecessary, no delivering or collecting. Just talk to property owners about these low prices. \$50 to \$100 weekly easily made. Check mailed you each Friday. Write at once for Free Sales Outfit, with complete information. Farm & Home Paint Co., Desk 83, Kansas City, Mo.

Our Readers Report Splendid Results with Classified Advertising

With The Business Farmer now reaching nearly a hundred thousand subscribers, there is an unlimited market for all kinds of goods, supplies and equipment used by farmers and their families.

There is practically no limit to the variety of offerings that appear in this department. That's why everybody reads them. Everyone of our readers is invited to make regular use of Classified advertising. It costs little—and does business. Through this department you can readily and quickly find buyers for everything that farmers and their families have use for.

THE MICHIGAN BUSINESS FARMER :: MT. CLEMENS, MICHIGAN

PEARL GRIT
"THROW PEARL TO POULTRY AND WATCH RESULTS"
GRIT
T.O.M.CO.

Why don't my Hens Eat More PEARL GRIT?

We have had this question asked time after time. The answer is simple: "Hens don't need any more than they eat."

THE PROOF IS HERE

Maryland Experiment Station in comparing Lime Stone with Oyster Shell found: "The Limestone pen consumed 43% less material but laid 20% more eggs."

"Limestone can be safely used as the sole source of Calcium for growing chicks and laying hens."

Kentucky Experiment Station found that Limestone Grit produced by far the most eggs and the hens ate much less of the grit, thus making a gain both ways.

PEARL GRIT is Carefully Selected Limestone. It is clean and healthful. It is pure limestone, high in Calcium. It furnishes the necessary grinding action in the gizzard, also insures ample supply of Calcium for bone and egg shell structure. A small amount of it will do as much good as larger amounts of grit from less effective materials. "Less grit to buy and more eggs to sell" is borne out in actual practice when you use PEARL GRIT.

Made in three sizes: For Chicks, Growing Birds and Laying Hens.

THE OHIO MARBLE COMPANY
PIQUA, OHIO

We Have Dealers Everywhere. Ask Your Dealer



Now Booking May and June Orders

Placing Your Order Now Insures Delivery

HOLLYWOOD WHITE LEGHORNS

MICHIGAN ACCREDITED

Large size, production type, egg bred Leghorns. Known Layers and Profit Payers. Producing large, real WHITE EGGS. Prolific producers in winter as well as in other months. A Popular Breed for Commercial Egg Farms, as the eggs command premium prices on leading egg markets. Our Contest Pullets during January this year produced eggs averaging 25 ounces to the dozen. Local Customer reports over \$3.00 per bird profit and had best grade of eggs at the local egg producers association, which has a membership of about 400 farmers. We have PURE HOLLYWOOD LEGHORNS and HOLLYWOOD MATED LEGHORNS at prices that are right.

BARRED ROCKS AND ANCONAS

Two very popular breeds. Order at once for May and June delivery. Our supply of these is limited. All Michigan Accredited from choicest breeding stock.

We guarantee Live Delivery and Pay the Postage. Will ship C. O. D. Write for our Catalog which explains our stock in detail.

WYNGARDEN FARMS & HATCHERY
Zeeland Box B Michigan



RURAL CHICKS

Breeding Stock

Rural "Gold Seal" Chicks are making a record of profit performance. Their story of abundant, large sized, pure white eggs, is boldly written in the bank books of our Customers.

See our page ad in this paper's special issue of Mar. 31

Tells how Rural "Gold Seal" Chicks were developed. Explains our Easy Buying Terms, tells of our FREE OFFER and our Special Low Prices.

Furthermore, Rural's Ironclad Guarantee protects you, and assures you of receiving quality bred Chicks.

BUY AT THESE LOW PRICES

Rural "Gold Seal" Commercial Grade Hollywood Foundation S. C. White Leghorns. LOTS OF 100 500 1,000

\$12.00 \$57.50 \$110.00

Assorted Chicks, in any quantity, per 100 — **\$8.00** **PAY ONLY ONE CENT PER CHICK DEPOSIT**

Pay the Postman the Balance When He Delivers Your Chicks

Rural Poultry Farm

BOX 4-B

ZEELAND, MICHIGAN

Babion's Pure Bred Chicks

TRAPNESTED MATINGS add 2c; BLUE RIBBON PENS add 4c each

	25	50	100	500
100% Live Delivery guaranteed, and Postage paid on				
White, Brown & Buff Leghorns	\$3.50	\$6.50	\$12.00	\$53.00
Barred, White and Buff Rocks, Minorcas, Anconas,				
White Wyandottes and Reds	4.00	7.50	14.00	68.00
Silver Wyandottes and Orpingtons	4.75	8.50	16.00	78.00
Mixed all heavy Breeds, No Odds	3.25	5.50	11.00	52.00

Babion's Fruit and Poultry Farms, Lock Box 354-B, Flint, Mich.

THE BROODER HOUSE

THE building used for artificial brooding of chicks should be portable and placed on ground where chicks have not been raised for at least three previous seasons. The house should be thoroughly cleaned, swept, scrubbed with soap and water, and flooded with a good disinfectant. In setting up the brooder stove, the chimney should be cleaned and replaced with new pipe if necessary, a damper placed in the pipe and the temperature regulated so that a uniform temperature of from 85 to 95 degrees is maintained at a distance one inch above the floor, two to four inches outside of the outside rim of the canopy. One limited warm area should be provided where the chicks can go to get warm and they should be required to eat and exercise in a cool room, outside in the sun, or in a part of the house removed from the hover where the temperature does not exceed 65 to 70 degrees.

PROFIT AND HAPPINESS FOUND WITH POULTRY

(Continued from Page 4)

but found out that the commercial egg mash was just as good, and a lot better mixed, and saved him all of that time and extra work. The layers get all they want of this dry mash, and every other day get a good meal of moist mash, with cod liver oil in it. It is fed at the rate of three pints to each 200 birds, mixed in about twelve quarts of mash with hot water. Commercial scratch, grain, is fed at four o'clock in the afternoon, all they will eat then, with some left in the straw for early morning. The electric lights are turned on by an alarm clock at from 3:30 to 4:30 a. m., according to the time of the year, and the daylight. The working day of the birds is about 14 hours. From 10 to 12 pounds of grain is fed to each 100 hens.

The Eichelbergers started in eleven years ago with just \$200.00. They were in debt for their farm, for the hen house, for just about everything. But that hen intended for the Sunday dinner had given them a real vision of work they knew they would like. Maybe their dreams were a bit high, for a profit of a dollar per month per hen is only found by beginners, with a good pencil and a big sheet of paper.

"But today," says Eichelberger, "we are independent, we have made some money, and love our work, as is a real pleasure." That is a combination it is impossible to beat, it is a real pleasure. That is a both in the same job.

As we looked at their pretty and modern bungalow, their fine hen house in the midst of the orchard, the well-kept lawn, and saw the smiles on the faces of the partner owners of Oakland Hills Poultry Farm, we couldn't help thinking they owed a whole lot to the hen. Rather than follow the so-called called "blue bird of happiness" it looks like a better bet to follow the hen.

GROWING 54 BUSHELS OF WHEAT TO THE ACRE

(Continued from Page 6)

so independent that we are not at home when the farm needs attention.

I have used some lime and have a nice lot of alfalfa growing. The soil seems to grow alfalfa without lime. Have raised alfalfa for about 12 years.

My practice where I plow under stubble or green manure is to use phosphorus, but where I have nothing to plow under I use a high grade complete fertilizer and have had good results with an 0-10-10 and for beans a 1-10-3 mixture. It not only gives a better yield, but matures the crop earlier.

We raise corn, oats, wheat, beans, hay, some sugar beets, and potatoes, and with the milk and surplus stock, we have nearly a continuous income and don't depend on any one crop. The hay and straw is all used up on the farm and returned to the soil.

I want to leave the soil more fertile than I found it, and I believe with my method I am going to accomplish it.

I want to thank you for your service in helping me get my money from the company. They refunded my money last week.—C. W., Mt. Clemens, Mich.

White Diarrhea

Splendid Success of Mrs. Ethel Rhoades in Preventing White Diarrhea

Mrs. Rhoades' letter will no doubt be of utmost interest to poultry raisers who have had serious losses from White Diarrhea. We will let Mrs. Rhoades tell it in her own words:

"Dear Sir: I see reports of so many losing their little chicks with White Diarrhea, so thought I would tell my experience. My first incubator chicks when but a few days old, began to die by the dozens with White Diarrhea. I tried different remedies and was about discouraged with the chicken business. Finally, I sent to the Walker Remedy Co., Dept. 538, Waterloo, Ia., for a \$1.00 box of their Walko White Diarrhea Remedy. It's just the only thing for this terrible disease. We raised 700 thrifty, healthy chicks and never lost a single chick after the first dose." —Mrs. Ethel Rhoades, Shenandoah, Iowa.

Cause of White Diarrhea

White Diarrhea is caused by microscopic organisms which multiply with great rapidity in the intestines of diseased birds and enormous numbers are discharged with the droppings. Readers are warned to beware of White Diarrhea. Don't wait until it kills half your chicks. Take the "stitch in time that saves nine." Remember, there is scarcely a hatch without some infected chicks. Don't let these few infect your entire flock. Prevent it. Give Walko in all drinking water for the first two weeks and you won't lose one chick where you lost hundreds before. These letters prove it:

Never Lost a Single Chick

Mrs. L. L. Tam, Burnetts Creek, Ind., writes: "I have lost my share of chicks from White Diarrhea. Finally I sent for two packages of Walko. I raised over 500 chicks and I never lost a single chick from White Diarrhea. Walko not only prevents White Diarrhea, but it gives the chicks strength and vigor; they develop quicker and feather earlier."

Never Lost One After First Dose

Mrs. C. M. Bradshaw writes: "I used to lose a great many chicks from White Diarrhea, tried many remedies and was about discouraged. As a last resort I sent to the Walker Remedy Co., Dept. 538, Waterloo, Iowa, for their Walko White Diarrhea Remedy. I used two 50c packages, raised 300 White Wyandottes and never lost one or had one sick after giving the medicine and my chickens are larger and healthier than ever before. I have found this company thoroughly reliable and always get the remedy by return mail." —Mrs. C. M. Bradshaw, Beaconsfield, Iowa.

You Run No Risk

We will send Walko White Diarrhea Remedy entirely at our risk—postage prepaid—so you can see for yourself what a wonder-working remedy it is for White Diarrhea in baby chicks. So you can prove—as thousands have proven—that it will stop your losses and double, treble, even quadruple your profits. Send 50c for package of Walko (or \$1.00 for extra large box)—give it in all drinking water and watch results. You'll find you won't lose one chick where you lost dozens before. It's a positive fact. You run no risk. We guarantee to refund your money promptly if you don't find it the greatest little chick saver you ever used. The Pioneer National Bank, the oldest and strongest bank in Waterloo, Iowa, stands back of our guarantee.

WALKER REMEDY CO., Dept. 538, Waterloo, Iowa.

Send me the () 50c regular size (or () \$1 economical large size) package of Walko White Diarrhea Remedy to try at your risk. Send it on your positive guarantee to promptly refund my money if not satisfied in every way. I am enclosing 50c (or \$1.00).—(P. O. money order, check or currency acceptable.)

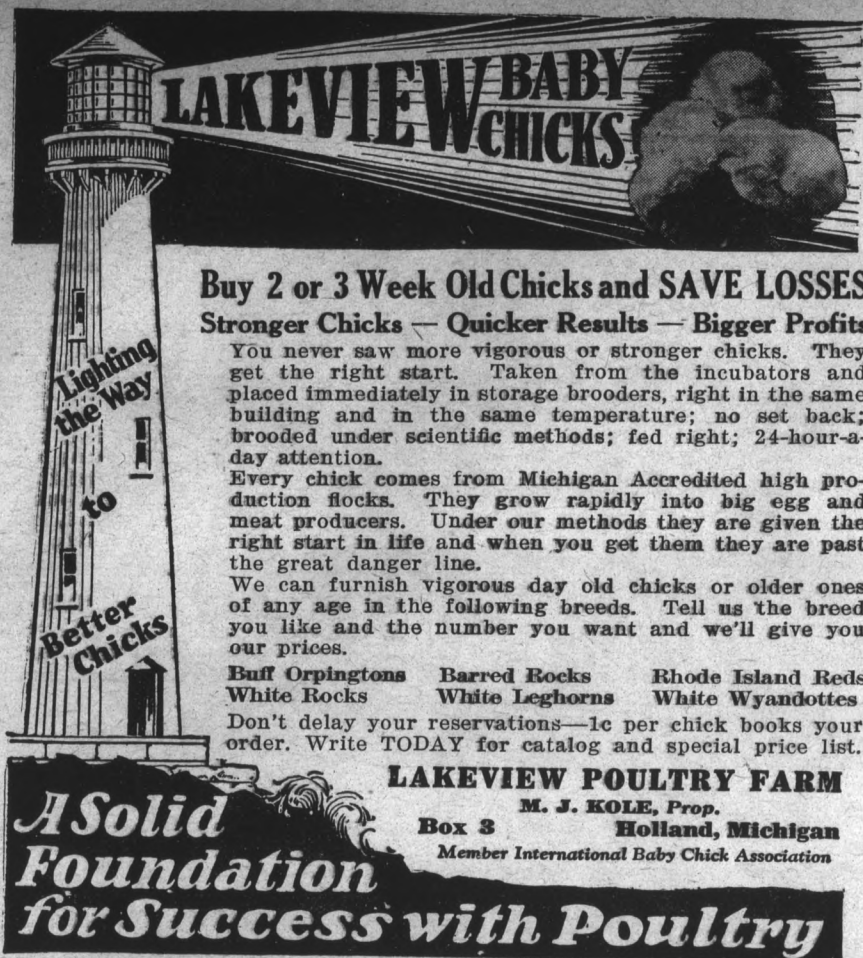
Name.....

Town.....

State.....

R. F. D.

Mark (X) in square indicating also package wanted. Large package contains about two and one-third times as much as small.



LAKEVIEW BABY CHICKS

Buy 2 or 3 Week Old Chicks and SAVE LOSSES
Stronger Chicks — Quicker Results — Bigger Profits

You never saw more vigorous or stronger chicks. They get the right start. Taken from the incubators and placed immediately in storage brooders, right in the same building and in the same temperature; no set back; brooded under scientific methods; fed right; 24-hour-a-day attention.

Every chick comes from Michigan Accredited high production flocks. They grow rapidly into big egg and meat producers. Under our methods they are given the right start in life and when you get them they are past the great danger line.

We can furnish vigorous day old chicks or older ones of any age in the following breeds. Tell us the breed you like and the number you want and we'll give you our prices.

Buff Orpingtons Barred Rocks Rhode Island Reds
White Rocks White Leghorns White Wyandottes

Don't delay your reservations—1c per chick books your order. Write TODAY for catalog and special price list.

LAKEVIEW POULTRY FARM
M. J. KOLE, Prop.
Box 3 Holland, Michigan
 Member International Baby Chick Association

A Solid Foundation for Success with Poultry

BABY CHICKS at WHOLESALE PRICES

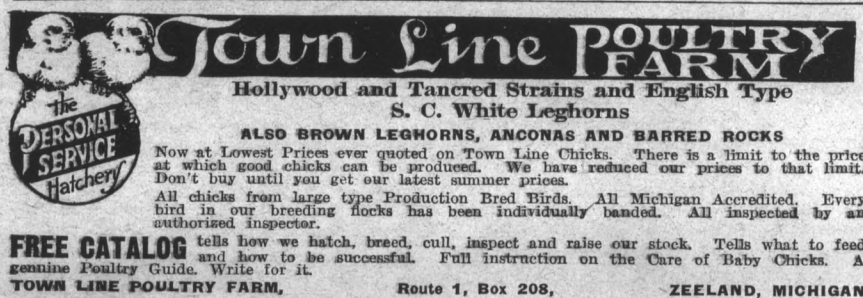
From 3 proven breeds. Bred 31 years for higher egg production. Direct from the farm to your door. From some of Michigan's best producing flocks. Why look for cheap break neck prices when you can get something better at a trifle higher price. From a Reliable Breeder of pure bred, large-bodied birds with big combs, free from disease, that lay large white eggs when prices are high. Prices for April until May 16 deliveries:

EXTRA SPECIAL—Deduct \$1.00 for every 100 chicks, except broilers, ordered at these prices. If you haven't our Special Discount Coupon, attach this ad to your order.

	25	50	100	500	1000
Tom Barron Strain S. C. White Leghorns.....	\$3.75	\$7.50	\$14.00	\$67.50	\$135.00
Tom Barron (Hollywood Strain) S. C. White Leghorns.....	3.50	7.00	13.00	62.00	120.00
Reliable and Ream Strain S. C. White Leghorns.....	3.25	6.50	12.00	58.00	112.00
Shepherd Strain S. C. Anconas, Special Mating.....	3.50	7.00	13.00	62.00	120.00
Shepherd Strain S. C. Anconas, Utility Mating.....	3.25	6.50	12.00	58.00	112.00
Rose Comb White Wyandottes, Evergreen Strain.....	4.75	9.00	17.00	80.00	160.00
Broilers or Mixed Chicks.....	2.75	4.75	9.00	45.00	87.50

A special discount of 5% on all orders received 30 days or more in advance. 1 cent per chick with order, balance 10 days before chicks are to be shipped. 100% live delivery guaranteed. Postpaid. Write for our 1928 catalog, it's free and instructive. Reference Zeeland State Bank.

RELIABLE POULTRY FARM & HATCHERY R. 1, Box 41 ZEELAND, MICHIGAN



Town Line POULTRY FARM

Hollywood and Tanager Strains and English Type S. C. White Leghorns

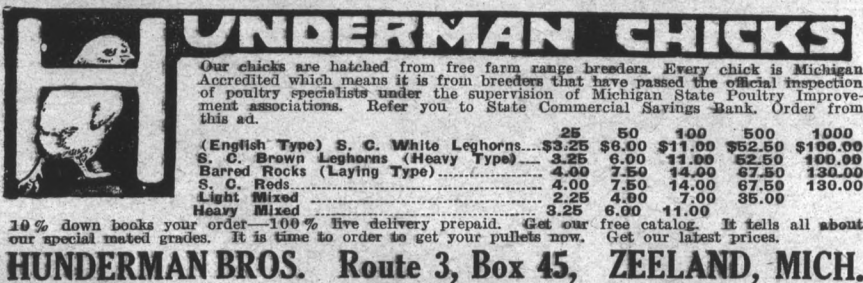
ALSO BROWN LEGHORNS, ANCONAS AND BARRED ROCKS

Now at Lowest Prices ever quoted on Town Line Chicks. There is a limit to the price at which good chicks can be produced. We have reduced our prices to that limit. Don't buy until you get our latest summer prices.

All chicks from large type Production Bred Birds. All Michigan Accredited. Every bird in our breeding flocks has been individually banded. All inspected by an authorized inspector.

FREE CATALOG tells how we hatch, breed, cull, inspect and raise our stock. Tells what to feed genuine Poultry Guide. Write for it.

TOWN LINE POULTRY FARM, Route 1, Box 208, ZEELAND, MICHIGAN



HUNDERMAN CHICKS

Our chicks are hatched from free farm range breeders. Every chick is Michigan Accredited which means it is from breeders that have passed the official inspection of poultry specialists under the supervision of Michigan State Poultry Improvement associations. Refer you to State Commercial Savings Bank. Order from this ad.

	25	50	100	500	1000
(English Type) S. C. White Leghorns.....	\$3.25	\$6.00	\$11.00	\$52.50	\$100.00
S. C. Brown Leghorns (Heavy Type).....	3.25	6.00	11.00	52.50	100.00
Barred Rocks (Laying Type).....	4.00	7.50	14.00	67.50	130.00
S. C. Reds.....	4.00	7.50	14.00	67.50	130.00
Light Mixed.....	2.25	4.00	7.00	35.00	70.00
Heavy Mixed.....	3.25	6.00	11.00	52.50	100.00

10% down books your order—100% live delivery prepaid. Get our free catalog. It tells all about our special mated grades. It is time to order to get your pullets now. Get our latest prices.

HUNDERMAN BROS. Route 3, Box 45, ZEELAND, MICH.



CHICKS from Michigan Accredited Flocks

Bargain Prices For May Delivery

Chicks from large, heavy, carefully selected birds. Good winter layers.

White and Brown Leghorns: 100-\$8.50; 200-\$16.50; 500-\$40.00; Barred Rocks: 100-\$10.50; 200-\$21.00; 500-\$50.00.
Heavy Assorted: 100-\$9.00; 200-\$18.00; Heavy and Light Assorted: 100-\$8.00; Light Assorted: 100-\$7.00; 200-\$13.00.

For delivery before May first—chicks are \$2.00 per 100 higher than prices quoted above.

Order from this ad today. Save time and money. 100% live postpaid delivery. Write for pullet bargains. Write for free catalog.

Knoll's Hatchery & Poultry Farm R. F. D. No. 12, Box B. F., Holland, Mich.

WINNERS FROM THE START

LEGHORNS THAT LAY

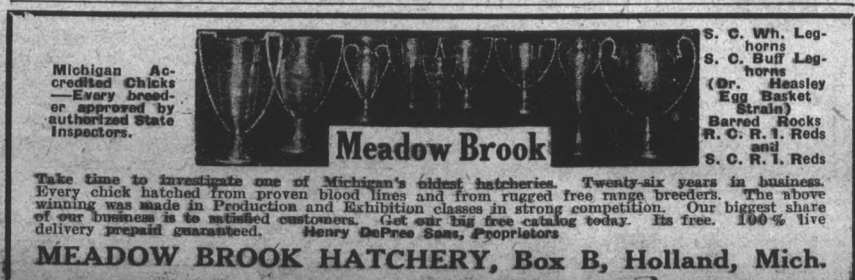
Selected for Size—not less than 22 ounces to the dozen. For Color—graded carefully according to the U. S. HENNER WHITE Standard. These are Chalk White Eggs of fine texture and uniform shells, producing uniformly large, vigorous, healthy chicks. It is from S. C. White Leghorn eggs like these that we produced the stock that won SEVEN SILVER CUPS for us in the Utility and Production Classes in the Zeeland and Holland Poultry Shows, December, 1927. Good Stock, Good Breeding, Good Selection made it possible.

You can profit greater with chicks from such eggs with a pre-determined tendency to produce more eggs of this nature, by reason of the increasing demand for more and better eggs.

SEND FOR OUR BIG 1928 CATALOG

Let us tell you more about this stock before you buy any chicks. You'll find it interesting and instructive, a real poultry guide to Bigger Poultry Profits.

Vitality Leghorn Farm, Route 1, Box B, Zeeland, Michigan



Meadow Brook

Michigan Accredited Chicks—Every brood or approved by authorized State Inspectors.

Take time to investigate one of Michigan's oldest hatcheries. Twenty-six years in business. Every chick hatched from proven blood lines and from rugged free range breeders. The above winning was made in Production and Exhibition classes in strong competition. Our biggest share of our business is to satisfied customers. Get our big free catalog today. Its free. 100% live delivery prepaid guaranteed.

Henry DePree Sons, Proprietors

MEADOW BROOK HATCHERY, Box B, Holland, Mich.



FOR FARM FLOCKS

SUPERIOR Leghorns

here are Big Values

Superior Commercial Baby Chick Prices
 March and April Delivery
 Per 100 Per 200 Per 500 Per 1000
\$13.00 \$26.00 \$62.50 \$122.50

ORDER DIRECT from THIS AD

For your farm flock Superior Commercial mated chicks are especially adapted. These rugged easy to raise chicks have the ability to make heavy layers. They have established an enviable reputation on commercial poultry farms and as farm flocks. The male birds used in these matings are from known record hens. They are also Michigan Accredited.

We guarantee 100% live delivery at the above prices and stand squarely behind every transaction. We also have a special grade. Our big 64 page catalog fully describes our modern breeding plant. The largest in Ottawa County. Superior Michigan Accredited Chicks will make your poultry income safe. Write today.

SUPERIOR POULTRY FARMS, INC.
C. J. DeKoster, Mgr.
Box 401 Zeeland, Michigan



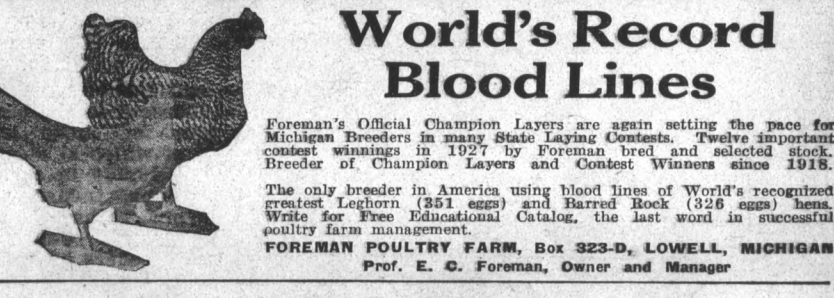
SILVER WARD SELECT CHICKS

Have you seen the new low prices on our famous Silver Ward Chicks. Write today and get our money saving values on this strain of proven dependability. Silver Ward Chicks are Michigan Accredited which means that every breeder has been leg banded and selected by approved inspectors. Every chick is pure bred of well bred ancestry. They will make heavy layers.

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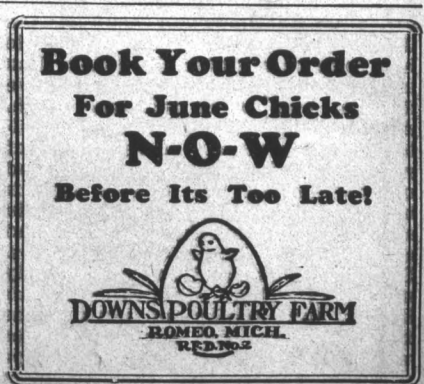
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R. 2, Box B



Book Your Order For June Chicks N-O-W

Before Its Too Late!

DOWN'S POULTRY FARM
ROMEO, MICH.

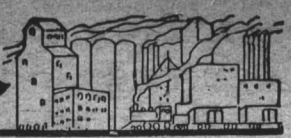


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To get our free Catalogue and prices on **QUALITY CHICKS**, White Leghorns, Barred and White Rocks, R. I. Reds, White Wyandottes. All Michigan Accredited. Some Certified. Established 1911—Better this year than ever. **Dean Egg Farm & Hatchery Box 7, Birmingham, Mich.**



MARKET FLASHES



Grains Are Holding Steady or Making Gains

Cattle Active Because of Small Receipts—Hogs Turn Weaker

By Market News Service, Bureau of Agricultural Economics, U. S. D. A.

(Special to THE BUSINESS FARMER)

SOME of the force that bring lower prices began to take effect here and there about the first of April. Heavy supplies of various lines had been attracted to the city markets by the rising prices of the month before. Shipments of other products begin to increase rapidly anyway at this time of year. The result was market disturbance and some small losses in price of vegetables, eggs and butter. Cotton, grains hay and livestock hesitated without much change, the reserve supply of these lines being generally very moderate. Wool and stored fruit acted as if holding market positions too strong to give way until new supplies are in sight. Conditions in the business world seem to be slowly on the mend, suggesting good consuming demand for coming crops.

Potatoes

The range of potato prices at North Central shipping points declined slightly around April 1 to \$1.85 to \$2.15 per 100 pounds. The southern Idaho market on Russet Burbanks had weakened to \$1.40 to \$1.50. Maine potatoes were selling about 15 cents lower in eastern markets. New Bliss Triumphs from Texas held firmly in consuming centers and still brought \$5 per 100 pounds sacked, at lower Rio Grande Valley points.

Grains

The rather close adjustment of the prospective supply of bread grains to probable requirements, together with the strength in the domestic situation, caused a firm market for feed grains. Rye and barley prices were advanced on light receipts. Soft winter wheat showed a further market advance as a result of the diminishing supply and urgent demand. Prices of milling grades advanced as much as 4 to 5 cents per bushel the last of March in the principal markets. This sharp advance in soft winter wheat strengthened the market for hard winter and prices of this class of wheat were advanced 1 to 2 cents per bushel. Spring wheat markets also tended upward and premiums were held steady. Light offerings of barley maintained a firm market for that grain. The higher prices for bread grains was the principal strengthening influence for corn, since receipts were slightly larger and demand only moderately active. Industries and feeders continued to be the principal buyers.

Hay

Favorable weather for western ranges, together with the approach of the pasturage season in the Southwest, restricted the demand for feeds and was largely responsible for the lower prices of early April. Prairie hay marketing has been about 10 per cent smaller than last year, but the total movement of alfalfa was about the same with heavier marketings from the western areas offset by a smaller movement from the North Central States. Decreased receipts at important markets confirm the light movement. Prices of prairie hay have been materially lower than last season, when there was an active demand and prices relatively high. Alfalfa prices this season have followed fairly closely those of recent years. This increased popularity and market demand for legume hays is being reflected in a decided shift in acreage from timothy to clover and alfalfa in the North Central States. Prospective demand for hay is only moderate. There appears to be fair inquiry for timothy for work teams in the eastern and southern States which may provide an outlet for some of the surplus timothy from the Northern Central States. Inquiry for dairy alfalfa may slacken somewhat with the improvements of pasturage although a continued movement to the important dairy districts adjacent to large cities may be expected.

Cattle

The small improvement in the beef

market and in orders for cattle and the final results they had on the live cattle market were suggestive, indicating what a relatively big change even slightly better conditions can make as long as receipts continue small. With this feature in mind, the week's trade was more or less suggestive of the future, causing some in the trade to predict \$16 heavy steers by May. Such an advance would be dependent on two factors at the moment unknown, that is, the size of the crop of heavies to be marketed and the complexion of the beef trade within the next few weeks. Concerning the available crop of weighty steers, trade opinions are divergent, some taking the view that Nebraska, Kansas and South Dakota have a sizable sprinkling of heavies to run, others believing that good prices since the first of the year have induced finishers to unload. No doubt light yearlings will expand

feed, as estimated on March 24, is exciting trade comment. The manner in which supplies were shut off from the Missouri River markets and Denver, when prices broke at the opening of the closing week in March, hinted at a bullish attitude in the now only important immediate source of sizable fat lamb supplies.

Wools

Further trading was reported in eastern markets on contracted wools for future delivery, but this business was spotted and some firms are not inclined to offer their contracts before the wools are shorn and graded. The strong situation with slightly upward price tendency in foreign markets tended to give added support to the optimism created by the strong statistical position of raw wool stocks in this country and prices hold well.

Eggs

Egg markets are beginning to show the usual seasonal decline under the influence of heavier receipts. The amount of buying for storage isb rather limited as yet, but with the month of April now at hand, it is expected that the into storage movement will gain considerable headway. Prices are slightly lower in early

BEANS

It is reported that during the last couple of weeks bids on Michigan CHP beans were made as high as \$10 FOB Michigan but most places it was not quoted above \$9.35. Just what will happen in the market is open to the wildest guesses. Some are predicting \$11 and even \$12 before the new crop. There is little consolation to the farmer in the present skyward trend of the market as most of the beans are out of his hands. However, it will cause an extra large acreage to be planted this spring which will result, no doubt, in over production next fall, if weather conditions are favorable.

DETROIT BUTTER AND EGGS

Butter easy; creamery, in tubs, 88 to 90 score, 42 @ 43 1/2 c. Eggs easy; fresh firsts, 27 @ 28c.

SEEDS

DETROIT.—Clover seed, domestic \$17.25; alsike \$15.45; timothy \$2.05 bu.

CHICAGO.—Timothy seed, \$3.10 @ 3.85 cwt; clover seed, \$20.75 @ 27.75 cwt.

DETROIT LIVE POULTRY

(Commission merchants' gross returns per pound to farmers, from which prices 5 per cent commission and transportation charges are deductible.)

Demand steady; broilers, 1 1/2 to 2 lbs., rocks, 52c; reds and others, 45 @ 50c; springs, 3 to 4 lbs., 32c; 4 1/2 to 5 1/2 lbs., 30c; coarse and staggy, 25c; leghorns, 24c. Hens: Colored, 30c; leghorns and Anconas, 25c. Cocks, 18c. Ducks: White, 4 1/2 lbs. and up, 83c; colored, 30c; small, 25c. Geese, 21c.

LIVESTOCK MARKETS

DETROIT.—There was a fair supply of cattle and the market was active on cow stuff of all kinds, somewhat slower on all others, especially on the heavy kinds. However, at the close about all were sold. Good milkers and springers continue in active demand, prices holding steady to strong. Fair to good yearlings, \$10.50 @ 13.10; fair to good heavy steers, \$10.75 @ 13.00; handy weight butcher steers, \$10.50 @ 12.25; fair to good heifers, \$9.50 @ 11.25; common light butchers, \$8.25 @ 10.25; common butcher cows, \$6.50 @ 7.75; best cows, \$8.50 @ 9.75; good butcher cows, \$7.00 @ 8.75; cutters, \$5.50 @ 6.25; canners, \$4.75 @ 5.75; light butcher bulls, \$3.50 @ 9.75; bologna bulls, \$7.50 @ 8.25; stock bulls, \$7.00 @ 8.25; feeders, \$9.00 @ 10.75; —stockers, \$7.00 @ 10.50; milkers and springers, \$75.00 @ 125.00.

Good veal calves were fairly active and 50 cents higher than at the close last week, common kinds being a little draggy but steady.

Sheep and lamb quotations will be for clipped stock as very few wools are coming. Best lambs, \$14.50 @ 14.75; fair lambs, \$12.00 @ 13.00; light to common lambs, \$9.00 @ 11.50; fair to good sheep, \$7.50 @ 8.50; culls and common, \$3.00 @ 5.50.

Mixed butcher hogs were active and 35 cents higher than at the close last week. Lights were 15c higher, roughs steady to 25c up, and others steady. Mixed hogs, \$9.10; yorkers, \$9.10; pigs, \$7.00 @ 7.25; lights, \$8.25; stags, \$5.50; roughs, \$2.50 @ 7.50; extreme heavy, \$7.50 @ 8.50.

CHICAGO.—Hogs: Mostly 10c to 15c higher; light lights and pigs 10c to 25c higher; better grades showing most advance; top, \$8.85; butchers, medium to choice, 250 to 350 lbs., \$8.10 @ 8.50; 200 to 250 lbs., \$8.30 @ 8.85; 160 to 200 lbs., \$8.10 @ 8.85; 130 to 160 lbs., \$7 @ 8.65; packing sows, \$7.20 @ 7.80; pigs, medium to choice, 90 to 130 lbs., \$6.25 @ 7.75. Cattle: Largely nominal market; undertone steady to strong on all classes except cutter cows; litter, after advancing sharply this week, getting no dependable outlet; best steers, \$14.35; slaughter classes steers, good and choice, 1,300 to 1,500 lbs., \$13.50 @ 15.25; 1,100 to 1,300 lbs., \$13.25 @ 15.50; 950 to 1,100 lbs., \$12.75 @ 14.75; common and medium, 850 lbs. up, \$8.50 @ 13.50; fed yearlings, good and choice, 750 to 950 lbs., \$12.50 @ 14.50; heifers, good and choice, 850 lbs. down, \$8.50 @ 12.50; cows, good and choice, \$9 @ 11.25; common and medium, \$7.50 @ 9; low cutter and cutter, \$6 @ 7.50; bulls, good and choice, beef, \$8.75 @ 10.25; cutter to medium, \$7.25 @ 8.75; vealers, milk fed, good and choice, \$11.50 @ 14.50; medium, \$10.50 @ 11.50; cull and common, \$8 @ 10.50; stocker and feeder steers, good and choice, all weights, \$11.25 @ 12.50; common and me-

MARKET REPORTS BY RADIO DAILY

THE Michigan Business Farmer was first to broadcast farm market reports in Michigan (January 4, 1926). Market reports and farm news are now available as follows: WGHP (277.6 meters), 6:05 to 7:00 P. M.; WKAR (277.6), 12:00 M.; WWJ (352.7), 5:45 P. M.; WCX-WJR (440.9), 4:15 P. M.—Editor.

numerically, but that class has shown few signs recently of figuring in anything but an active, although somewhat fluctuating market.

Hogs

The hog market fluctuated at Chicago, but turned weaker toward the close and final prices at Chicago were mostly 10 to 15 cents lower than a week earlier. Closing top was \$8.50 with bulk of the better grade 170 to 220 pound averages \$8.25 to \$8.40, desirable 230 to 260 pound butchers mostly \$8.05 to \$8.30.

Sheep and Lambs

A substantial increase in the marketward movement of sheep and lambs, the supply of which at eleven markets was about 40,000 in excess of the week previous, turned the market into a buyers' rather than a sellers' affair. Whether Colorado and Nebraska lamb feeders have the estimated 550,000 lambs still on

April than the week before, and on some grades the tone of the market was weak, regardless of the Easter holiday demand from the Jewish ket is steady. Receipts are heavier than last week. There has been considerable buying in anticipation of holiday demand from the ewish trade. Heavy fowl is in great demand, with fancy stock finding the most ready sale. Dressed poultry shows very little change.

Butter markets were exceptionally unsettled around the first of the month. One apparent influence was the future market at Chicago, since delivery of March options had to be completed during the week. Movement to Chicago was heavier than usual for that reason, resulting in a temporary shortage at eastern markets. In general, production is increasing, at a favorable rate for the season.

THE BUSINESS FARMER'S MARKET SUMMARY and Comparison with Markets Two Weeks Ago and One Year Ago

	Detroit April 10	Chicago April 10	Detroit March 27	Detroit 1 yr. ago
WHEAT—				
No. 2 Red	\$1.75	\$1.74 1/2	\$1.66	1.31 1/2
No. 2 White	1.75		1.65	1.32 1/2
No. 2 Mixed	1.76		1.65	1.31 1/2
CORN—				
No. 2 Yellow	1.08	1.01 @ 1.02	1.08	.78
No. 3 Yellow	1.05		1.05	.75
OATS				
No. 2 White	.66	.60 @ .62	.65	.51
No. 3 White	.64 1/2	.57 1/2 @ .61 1/2	.63 1/2	.48
RYE—				
Cash No. 2	1.24	1.22	1.26	1.05
BEANS—				
C. H. P. Cwt.	9.50		9.00	4.35
POTATOES—				
Per Cwt.	2.50	1.50 @ 2.00	2.50	2.50
HAY—				
No. 1 Tim.	18 @ 14	17 @ 18	13 @ 14	17 @ 18
No. 2 Tim.	10 @ 11	15 @ 16	10 @ 11	15 @ 16
No. 1 Clover	11 @ 12.50	17 @ 18	11 @ 12.50	17 @ 18
Light Mixed	13 @ 14	17 @ 18	13 @ 14	16 @ 17

Tuesday, April 10.—Wheat and rye gain. Corn and oats steady at present prices. Bean market declines. Cattle and hogs active. Sheep steady.

Safeguard Your Poultry Profits

WITH MICHIGAN HATCHERY CHICKS



All Michigan Accredited
500 S. C. White Leghorns Trapped On Our Own Farm
Finest Egg Strains
Largest Type Barred Rocks

Years of breeding for higher egg production has placed Michigan Poultry Farm Stock on a high standard of quality.

Among 500 White Leghorns trapped on our own farm, a large part averaged 24 to 30 eggs monthly during the past winter.

Our Sheppard's Anconas and Holterman's Strain Barred Rocks are also of very best quality.

Order SAFELY and CONFIDENTLY direct from this ad. We guarantee 100% Live Delivery.

Pay Only \$1.00 Down. Balance C. O. D. Trapped Pure Hanson Strain

S. C. White Leghorns \$15.00 \$72.50

Barred and Tanager Fndn. S. C. W. Leghorns \$12.00 \$7.50 \$110

Sheppard's Str. Anconas \$12.00 \$7.50 \$110

Barred Ply. Rocks \$14.00 \$7.50 \$130

Broilers, Mixed \$8.25 \$40.00 \$75

Second (No cripples) \$7.00 \$35.00 \$70

MICHIGAN HATCHERY & POULTRY FARM, Box 1, HOLLAND, MICHIGAN

Ship Your Dressed Calves and Live Poultry to

Detroit Beef Company

OLDEST AND MOST RELIABLE COMMISSION HOUSE IN DETROIT

Write for new shippers Guide shipping tags and Quotations.

Detroit Beef Co.

1903 Adelaide St., Detroit, Mich.

BABY CHICKS

White and Brown Leghorns, Barred, White and Buff Rocks, R. I. Reds, Buff Orpingtons, White Wyandottes, Black Minorcas.

Tyrone Poultry Farm, Fenton, Mich.

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, 133A 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.)

WHEN WRITING TO ADVERTISERS MENTION THE BUSINESS FARMER

WHY pay high prices for small Leghorns buy just ordinary Leghorns—

When you can buy Chicks from our large English Type S. C. White Leghorns—those cold climate egg producers for these low prices.

March and April	May	June
100 \$11.00	100 \$10.00	100 \$ 9.00
500 50.00	500 45.00	500 40.00
1000 95.00	1000 85.00	1000 75.00

Place your order now and be assured of delivery when you want it. Any deposit books your order. 100% live and satisfactory delivery guaranteed. Circular Free.

City Limits Hatchery, P. Rezelman, Prop., Holland, Mich.

BIG HUSKY CHICKS

Proven Layers, Michigan Accredited. Heavy Laying Type ENGLISH AND TANGRED WHITE LEGHORNS, BROWN LEGHORNS, ANCONAS, BARRED ROCKS AND S. C. R. I. REDS. Also Mixed Chicks. Order NOW for preferred delivery dates. We guarantee 100% Live Delivery.

FREE Circular gives full details. Write for copy and learn at first hand about these Big Profit Producers.

WINSTROM HATCHERY, Box C-5, ZEELAND, MICHIGAN

CHICKS AT REDUCED PRICES

STRONG, STURDY, PURE BRED CHICKS FOR IMMEDIATE DELIVERY	50	100	500	1000
S. C. White Leghorns	\$5.00	\$ 9.00	\$42.50	\$ 80.00
S. C. Brown Leghorns and S. C. Anconas	5.50	10.00	47.50	85.00
Barred Rocks and R. I. Reds	6.00	11.00	52.50	100.00
Mixed Chicks for Broilers	4.00	7.00	35.00	70.00

MAY Delivery, 1c Per Chick Less Than Above Prices. JUNE Delivery, 2c Per Chick Less Than Above Prices.

Shipped Postpaid to your door. 100% Live Delivery Guaranteed. Order direct from this ad. We have no Catalog or Circular.

BLACK RIVER POULTRY FARM Box B ZEELAND, MICHIGAN

dium, \$8.50@11.25. Sheep: Early fat lamb trade around steady; fresh clipped lambs unchanged; lambs, good and choice, 92 lbs. down, \$15.50@17.10; medium, \$14.75@15.75; cull and common, \$13.25@14.75; medium to choice, 92 to 100 lbs., \$14.50@16.85; ewes, medium to choice, 150 lbs. down, \$8@10.50; cull and common, \$3.25@8.75; feeder lambs, good and choice, \$15.25@16.75.

EAST BUFFALO.—Dunning & Stevens report: Cattle: Steady. Hogs: Strong; \$8.25@8.50; pigs and lightfwith.52-e6tox8 medium and mixed, \$9.15@9.25; heavies, \$8.75@9.10; yorkers, \$9.15@9.25; lights, \$8.25@8.50; pigs and lights, \$7@7.50. Sheep: Slow; wool lambs, \$17; clipped, \$15; yearlings, \$9@12; wethers, \$9.50@10; ewes, \$7.50@9; calves, \$17.



Week of April 15

THE first one or two days of this week will be mostly fair but with the temperature below the seasonal normal. About Tuesday or Wednesday temperatures will moderate under the influence of increasing storm conditions. During the middle days of the week there will be some rather heavy local rain and wind storms. These will continue over into Thursday but about Friday we are looking for a short spell of fair weather. This week will end and the next week begin with renewed storms of more or less general rains but probably not as severe as we expect those of the middle of the week to be.

The general weather conditions for the week of April 15th are expected to average drier than the week beginning April 22nd. This latter week will have more extremes and changes.

Week of April 22

General rains will be the rule over most parts of Michigan at the beginning of this week, being the tail end of the storm that was predicted to make its appearance in the state at the end of last week. With the storms at this time will be considerable wind. Before the middle of the week there will be cool to cold weather and fair skies in many counties.

More general precipitation is to be expected about Tuesday or Wednesday and in some parts of the state will probably run over into Thursday. Although there will probably be some fair weather shortly after this storm center, we are of the opinion there will be more storminess as the week ends.

Defiance (Ohio).—Spring weather in earnest past few days. 68 degrees yesterday. Oats being sowed on wheat fields. Also barley which will be a larger acreage than common. But very little will go on market as will be fed to pigs. Our corn is getting pretty low. Lots of fall plowed ground and we hope and expect a good year, as work is getting a good start. The hay crop will be light. Clover nearly all frozen to death. Quotations from Bryan, Ohio: Wheat, \$1.53; corn, \$1.50; oats, 55c; rye, \$1.00; barley, 85c; potatoes, 85c; butter, 48c; eggs, 25c.—W. E. B., Apr. 4.

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If you have a good reputation in your neighborhood and some spare time—we will pay you for it and help you build a permanent business.

If You Are

A business man who is accustomed to deal with farmers; a retired farmer who is a leader in your community; a clergyman; a teacher; doctor; lawyer, or a wide awake young farmer who wants to work in the country—

One of Michigan's Leading Insurance Companies wants you and will train you to succeed. This is a high-class proposition for men of good reputation only—

It will stand the most rigid investigation, and we shall expect each applicant to be open to the same investigation by us. If interested please fill out and mail the coupon below.

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DETROIT, MICHIGAN

C. L. Ayres, President

American Life Insurance Company,
Detroit, Michigan

Gentlemen:

I would be interested in knowing more of your proposition. Please send me your questionnaire for more detailed information.

My present occupation is.....

My age is.....

Name

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Chicks direct from POULTRY FARM

Write today for complete information about our Large English type S. C. White Leghorns and heavy laying Barred Rocks. Carefully bred strains that are produced to make good winter layers on your farm. Every breeder carefully selected for size and egg production.

FREE CATALOG GIVES LOW PRICES—WE SHIP C. O. D.

Before you order your chicks get this free catalog that tells all about these money makers. One cent per chick down books your order. Balance C. O. D. Live delivery guaranteed. On previous years we have sold fully 80% of our chicks to customers within 20 miles of us who know our square dealings and have seen the quality of our stock. VILLAGE VIEW POULTRY FARM, Harry Ter Harr, Owner, R. 3, Box 3, Zeeland, Michigan.



American Chicks Are Bred-to-Lay and DO Lay

S. C. White and Brown Leghorns, Anconas, Black Minorcas, S. C. Rhode Island Reds and Barred Rocks of High Egg Bred Blood Lines, from fast growing, quick maturing strains. All Michigan Accredited. Orders now being booked for Spring Delivery.

SEND FOR OUR CATALOG. Tells all about our matings, and how to raise poultry for greater profit. We'll gladly send it FREE to Poultry Raisers.

We Guarantee 100% Safe Arrival in GOOD HEALTH

Overnight shipments to all Michigan and Nearby Points

AMERICAN CHICK FARM, Box B, ZEELAND, MICHIGAN

BIG PROFIT PRODUCING CHICKS



Michigan Accredited Chicks that are bred from proven blood lines, dictating official inspection under supervision of Michigan Poultry Improvement Association.

PAY \$1.00 DOWN—BALANCE C. O. D.

Pay for your chicks when you get them. Send \$1.00 and we will ship C. O. D. D. Get our big new catalog. It is free. It will help you. Your choice of three profitable breeds. 100% live delivery guaranteed.

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DUNDEE MICHIGAN ACCREDITED CHICKS

STOCK ALL BLOOD-TESTED FOR WHITE DIARRHEA FOR THE PAST FOUR YEARS.

You can save money by ordering Dundee Pure-Bred, Mich. Accredited and Blood-Tested Chicks. We hatch B. P. Rocks, R. I. Reds, and S. C. White Leghorns. Write for 1928 Catalog giving all details of our matings and full directions on how to raise baby chicks for greater profits. We guarantee 100% live delivery.

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Quality Breeding Counts In Egg Production

FAIRVIEW Pure Bred Chicks and Pullets are Michigan Accredited. Big Type Leghorns. Originated from the Barron Strain. Official Records 269 to 291 eggs.

S. C. WHITE LEGHORNS R. I. REDS WHITE AND BARRED ROCKS

BIG DISCOUNT NOW!

Pay only \$1.00 down and the balance C. O. D. after you see the chicks. We guarantee satisfaction.

FREE 1928 CATALOG tells the story and gives approved methods by which our breeding produces high quality chicks from rich egg bred blood lines. Write for Catalog and our Live and Let Live Prices.

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8 Varieties Record of Performance Male Matings

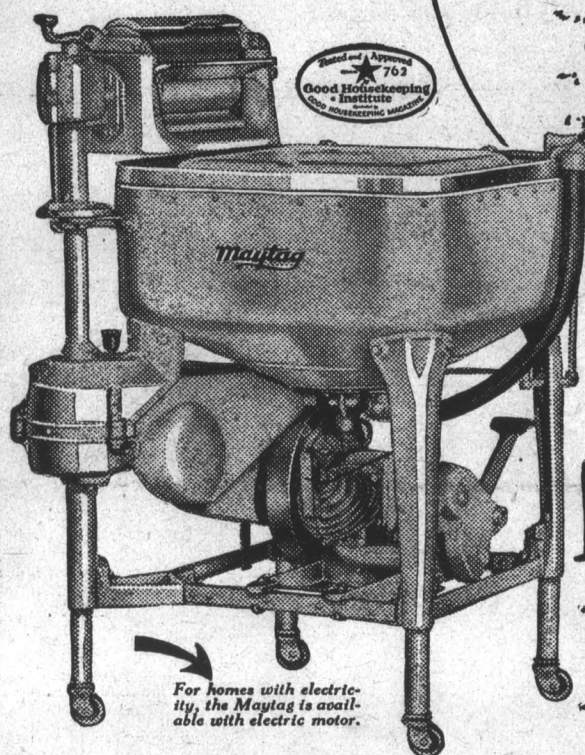
Our Pure Blood—SELECTED CHICKS—BIG EARLY ORDER—DISCOUNTS—15 Varieties

This year we introduce to you our Record of Performance pedigree male matings up to 316 egg records direct from British Columbia and Ontario, Canada. Some flocks trapped and bloodtested. Tanager White Leghorns 313 egg mating. Winners of many prizes. Get FREE circular of chicks, hatching eggs and brooders before buying elsewhere. Broiler chicks 8c up. Can ship at once.

Beckmann Hatchery, Box 57, Grand Rapids, Mich.

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GASOLINE
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For homes with electricity, the Maytag is available with electric motor.



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For Farm Homes Without Electricity

The Maytag Gasoline Multi-Motor is a skillfully made, modern, dependable little gasoline engine, exclusively a Maytag feature, and so popular with farm homes that have no electricity, that Maytag has become the world's largest producer of engines of this type and size.

Compare the two washers above and you will see that the Multi-Motor takes about the same space as the electric motor. There are no belts to line up. It is a part of the washer and starts with a step on the lever.

IT IS like adding a day of leisure to the farmwife's week when the Maytag does the washing. Of course, she will probably spend the extra hours with her garden, her chickens or her children, but it's a valuable gain anyhow.

There will be no more hand-rubbing when the Maytag comes—not even on the edges of collars, cuffs or wristbands, on overalls smeared with machinery grease. The Maytag flushes out the grimeiest dirt by water action alone. That is why the daintiest clothes are safe in its satin-smooth, cast-aluminum tub—the tub that keeps the water hot for an entire washing, then empties and cleans itself.

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The New Roller Water Remover

has large soft rolls that spare the buttons, remove both the surplus soap and water evenly regardless of lumps and seams in the clothes. It automatically adjusts the tension for a thick or thin garment, swings and locks in seven different positions, has a handy feed board, a self-reversing drain-board, and an instant safety tension release.

There are some other valuable Maytag features and you can learn all about them by a free trial washing.

Maytag Radio Programs



WHT, Chicago, Tues. Wed., Thur., Fri., Sat., 9:00 P. M. WCCO, Minneapolis, Fri., 8:30 P. M. WHO, Des Moines, Sun., 7:15 P. M. KDKA, Pittsburgh, Tues. and Wed., 10:00 P. M. WBAP, Fort Worth, Mon., 8:30 P. M. KEX, Portland, Ore., Tues. and Sat., 8:30 P. M. KSL, Salt Lake City, Mon., 7 P. M. KZL, Denver, Mon., 7 P. M.

Hours designated are standard time at the stations named

Maytag
Aluminum Washer

FREE TRIAL for a Week's Washing

Write or telephone any Maytag dealer. Ask him to send you a Maytag, either powered with an electric or a gasoline motor. Do a big washing—it will take an hour or so, and you will see why the Maytag has been awarded first place by the farm and city women of America.

IF IT DOESN'T SELL ITSELF, DON'T KEEP IT