

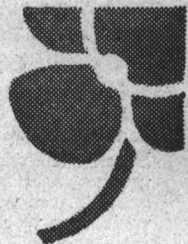
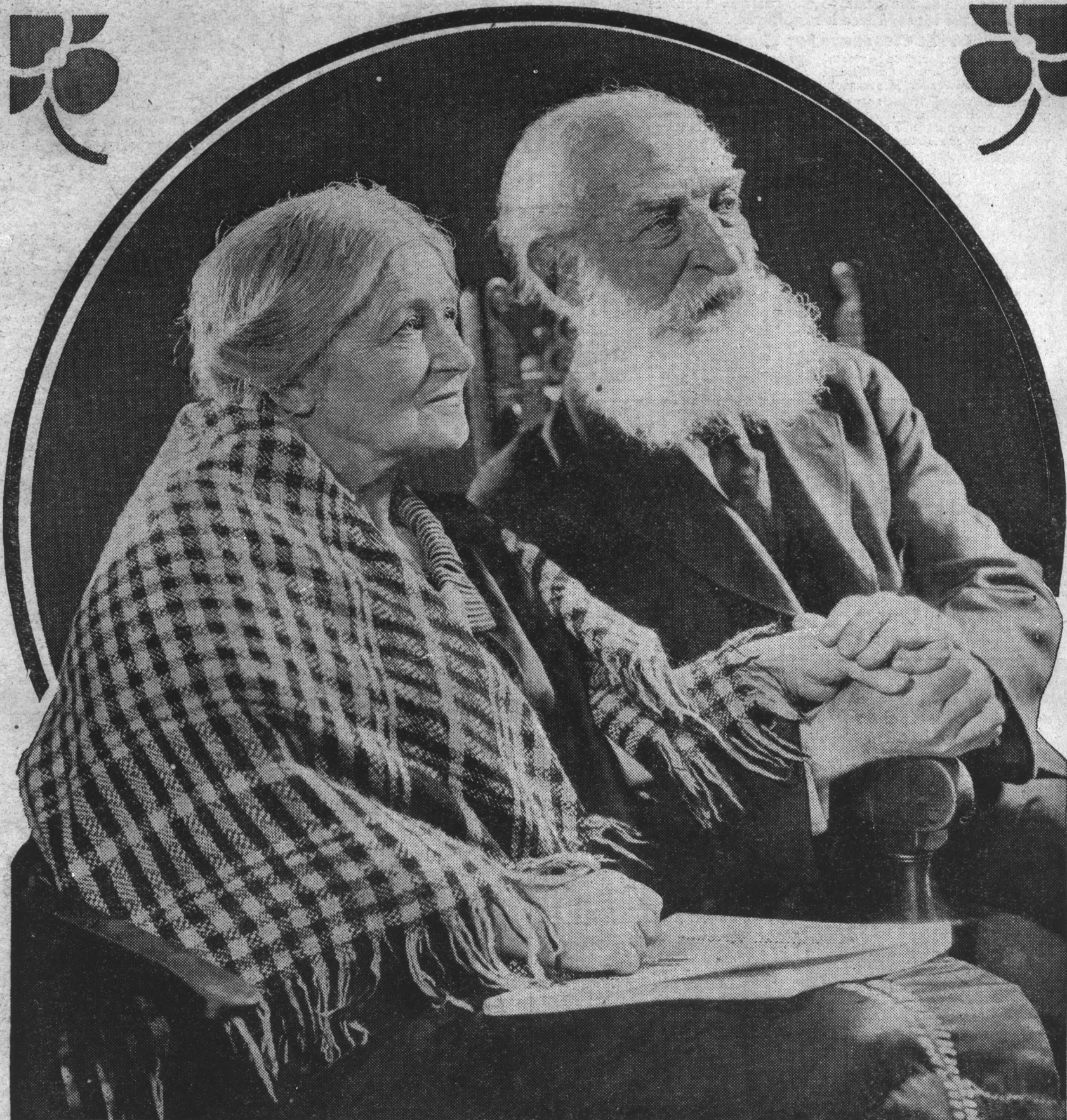
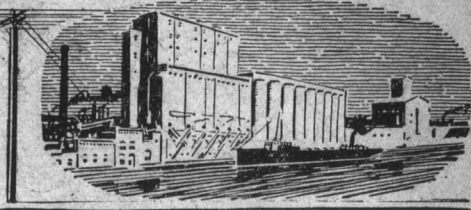
VOL. XV, No. 11

FEBRUARY 4, 1928

The Michigan BUSINESS FARMER



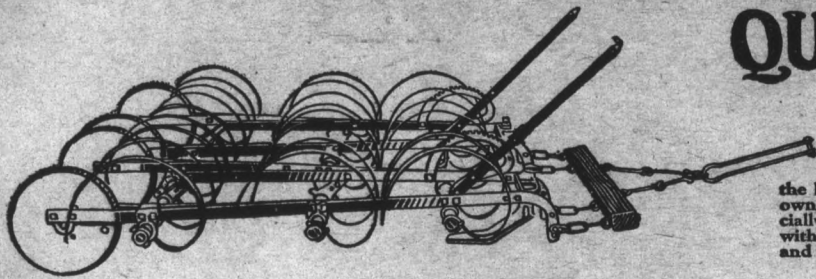
*An Independent
Farm Magazine Owned and
Edited in Michigan*



"SILVER THREADS AMONG THE GOLD"

Read in this issue: "State Program for Corn Borer Clean-Up In 1928"—"Predicts Bill Would Have Saved Hog Market"—"Let's Do Some Landscape Gardening This Spring"—"A Courageous Conviction Necessary To Drive Out Thieves"—"Small Supply of Michigan-Adapted Alfalfa Seed"—"How To Mark Your Chickens"—and many other features

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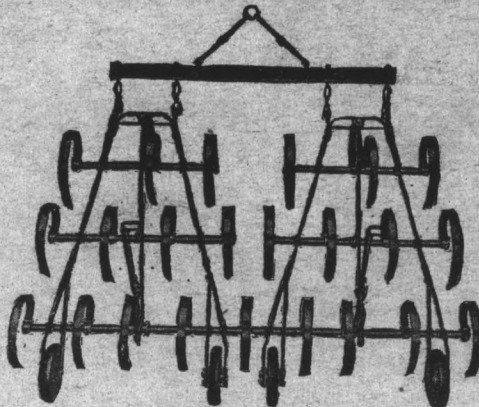
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Crop Reports

Genesee.—Cold weather of last part of last week has been broken by present mild weather. Farmers drawing manure and working at wood. Most of last year's lamb supply is sold. Dairy cattle bringing good price. Very few auction sales are being held. Majority of farmers must look for good times ahead. Quotations from Flint: Wheat, \$1.26 bu.; corn, 95c bu.; oats, 50c bu.; rye, 95c; potatoes, \$2.15 cwt.; butter, 52c pound; eggs, 46c dozen.—H. E. S., Jan. 24.

Montcalm.—Very changeable weather. Today ground is covered with snow and we are having cold weather and terrific winds. Our third Friendship Club meeting was held last Thursday. Taxes higher than last year. Not much being done excepting chores. Quotations from Stanton: Wheat, \$1.20; corn, per crate, 45c; oats, 50c; rye, 96c bu.; beans, white, \$5.90, red, \$6.50 cwt.; potatoes, 70c bu.; butter, 50c pound; eggs, 35c dozen.—Mrs. C. T., Jan. 23.

Hillsdale (N. W.).—Just usual round of chores now. All farmers with woodlots busy getting up year's supply of wood. Lots of visiting back and forth among neighbors because later in the season they are too tired and busy for much visiting. Few farmers report their flocks are laying good, but majority complain about poor production they are getting this year. Fall sown grain looks pretty brown now.—C. H., Jan. 24.

E. Huron.—Bare frozen ground soil drifting from plowed fields causing comment among our best farmers; our seasons are too short to use cover-crop much. Still a few sales; one a burn out. Report a good attendance. Sweet clover threshing about over; yield light. Many think they cut too green. Able bodied farm population not increasing. Aged people retiring to towns and more would if they did not meet so many wishing to return, complaining that their net return from their farms is not equal to house rent in town. Quotations from Bad Axe: Oats strong, beans advancing, milk nominal.—E. R., Jan. 23.

Monroe.—Little to report on field crop now except wheat and rye fields not looking well. Little snow to protect them here this winter. Have had much fair weather. Not extremely cold here. No severe storms as reported in some other parts of the State. Monroe county is pretty good place to live. Additional market quotations: Calves, 12c to 13½c; hogs, alive, 6c to 8½c; young chickens, alive, 18c to 24c; heavy hens, 20c to 22c; turkeys, alive, 35c to 43c; cabbage, carrots, turnips, 1½c to 2c pound. Black walnuts, 4½c pound. Wheat, \$1.30 to \$1.32 bu.; corn, \$1.30; oats, 53c bu.; rye, 95c bu.; potatoes, \$1 to \$1.25 bu.; butter not quoted; eggs, 42c to 43c dozen.—F. H., Jan. 23.

Saginaw (N.W.).—We are having all kinds of weather. The frost was about all out but froze up again. Sides roads all most impossible to travel. There is not much doing. A few beans going to market. Doing chores is about all most is doing. Not many cutting wood. Most all burn coal. An odd auction sale. Quotations from Hemlock: Wheat, \$1.24 bu.; corn, 80c bu.; oats, 50c bu.; rye, 90c bu.; beans, \$5.90 cwt.; potatoes, \$1.55 cwt.; butter, 48c pound; eggs, 42@40c dozen.—F. D., Jan. 23.

St. Joseph.—Farmers are still shredding corn where weather permits. Snow about all gone. Not much to do outside of cutting wood and hauling manure. One farmer started to plow recently. If nice weather keeps up there will be some more plowing done. Stock is doing ordinarily well. Cows are selling \$150 down.—A. J. Y., Jan. 16.

Berrien.—Weather very changeable; sweating one day, freezing the next. Fruit buds O. K. to date. Considerable grape pruning done during warm spells. Farmers complaining of oppressive taxes.—H. N., Jan. 24.

Saginaw (S. E.).—We have had a variety of weather the past 10 days, with rain, wind and snow. At this writing we have about two inches of snow on the ground, and quite wintry. Not much doing except chores and cutting fire wood. Very little grain going to market. Wheat is beginning to show the effects of freezing and thawing. Stock mostly in healthy condition. Beef cattle scarce and prices good. Quotations from Burch: Run Wheat, \$1.24 bu.; corn, 80c bu.; oats, 50c bu.; rye, 99c bu.; beans, \$6.10 cwt.; potatoes, \$1.10 bu.; butter, 45c lb.; eggs, 39c doz.—E. C. M., Jan. 26.

Northwest Oakland.—The cold weather lately spoiled our business. We were setting fence posts and making cement gate posts. The fence posts we set are steel pipes out of a big boiler. Each pipe is long enough to make two posts. We cut them in two with a hack saw and drill holes in top and at bottom for wires to fasten the fence to. They make a fine post and not very expensive. Quotations at Holly: Wheat, \$1.24; oats, 55c; rye, 80c; beans, \$5.80 cwt.; butter, 45c pound; eggs, 40c dozen.—J. D. C., Jan. 23.

Osceola.—We had the worst snow and blizzard the twentieth for the season; about 8 inches of snow. Potatoes not moving. Cattle not selling very rapidly. Price is 3 to 7 cents per hundred pounds. We are having nice weather after the (Continued on page 39)

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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, FEBRUARY 4, 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.

State Program For Corn Borer Clean-Up in 1928

A Big Job Was Done During 1927 But a Still Larger One Now Faces Farmers

THE European corn borer clean-up area for 1928 comprises 32 entire counties and portions of five others, according to the quarantine issue recently by Herbert E. Powell, State Commissioner of Agriculture.

Included in the area are the entire counties of Alcona, Alpena, Arenac, Bay, Barry, Branch, Calhoun, Clinton, Eaton, Genesee, Hillsdale, Huron, Ingham, Iosco, Jackson, Lapeer, Lenawee, Livingston, Macomb, Monroe, Montmorency, Oakland, Ogemaw, Oscoda, Presque Isle, Saginaw, Sanilac, Shiawassee, St. Clair, Tuscola, Wayne, and Wastenaw.

The following townships are also included in the area: Cheboygan county, townships of Maple Grove, Forest, Waverly, Aloha, Grant and Benton; Gladwin county, townships of Bourette and Sheridan; Kalamazoo county, townships of Wakarusa, Brady, Schoolcraft, Texas, Portage, Pavilion, Climax, Charleston, Comstock, Kalamazoo, Cooper, Richland, and Ross; Midland county, townships of Ingersoll, Mt. Haley, Lee, Homer, Midland, and Larkin; and St. Joseph county, the townships of White Pigeon, Sturgis, Farm River, Burr Oak, Sherman, Colon, Nottawa, and Leonidas.

Regulations

The regulations governing the 1928 clean-up, and promulgated by Commissioner Powell, are virtually the same as those in effect during the successful campaign of 1927. Briefly stated, the regulations provide that all corn refuse in form and condition to harbor living European corn borers shall be disposed of in the quarantined area prior to May 1, 1928.

Some changes, however, have been made in this year's rules. All coarse stemmed weeds within cornfields are required to be destroyed. Then, too, corn refuse which is plowed under or treated by special field methods shall be handled in such manner that the surface is kept clean between May 1 and July 10, according to the regulations. This is to guard against any material being brought to the surface during tillage operations. The surface must be kept clean during the period when the corn borer moths are known to emerge.

It is explained that the need of a clean surface cannot be overemphasized in the control of the European corn borer. Plowing does not kill all of the corn borers in a field. A lot of them come to the surface. Instinct tells the pest that it must come out of the ground if it is to change into a moth. For this reason, the borer comes to the surface and looks for something to hide in so that it may complete its life cycle. If the surface of the land is clean, the pest can find no harbor and soon dies when exposed to the elements and the attacks of predatory animals.

Few Exemptions

While tolerance is not conducive to complete control, certain exemptions are made in the regulations for this year. The most important is that fast corn stubble which are not over two inches in height above the soil surface in clean cornfields are exempted from the clean-up. It is pointed out, however, that such stubble cannot be over two inches in height, that no tolerance in this respect will be allowed, and that all other refuse in the field must be disposed of in order to have the field pass inspection.

The other exemption applies to corn crop parts, remnants, and other or finely ground, or completely plowed under, burned or tramped into and completely covered by manure, then it is exempt from the clean-up regulations.

The regulations make it clear that they apply not only to farmers' fields but also to gardens, barns, barnyards, feeding lots, canning factories, grain elevators, stock yards, stock pens, loading chutes, and similar places. The regulations also apply to all

cities and incorporated villages in the area defined as under quarantine.

To sum up, the two important changes in the regulations for 1928 are that coarse stemmed weeds within cornfields are included in the residues. If this material has been made into silage, or finely shredded, clean-up, and that fast corn stubble which are not over two inches in height in otherwise clean fields are exempted from the clean-up.

Shipment of Corn

A section of the quarantine regu-

lation which is apt to be lost track of is that which applies to the shipment of corn. Corn on the cob cannot be shipped outside the quarantine area. Shelled corn may be shipped to points outside of the area, provided it has been inspected and certified. Application for certification should be made to the State Department of Agriculture at Lansing.

When shipping shelled corn out of the area for seed purposes, farmers are warned against the practice of including whole ears in the container so that the purchaser may get an idea of what he may expect from the seed. Corn borers are often contained in the ear or cob and this practice is apt to result in a further spread of the pest.

No restrictions are placed on the movement of corn within the quarantined area but shipments consigned to points outside must be accompanied by a certificate of inspection. This phase of the quarantine applies not only to field corn but also to broom corn, all sorghums and sudan grass.

How Area Was Determined

The area under quarantine for 1928 was determined as the result of careful scouting during the summer of 1927. During this period, trained men, known as "scouts," conducted an intensive search for the corn borer in those townships adjoining the area then under quarantine. Suspected specimens were taken by these scouts, placed in suitable containers, and sent to competent entomologists for identification. If the specimens were positively identified as the European corn borer the area was placed under quarantine, and the scouts moved on to another township.

This procedure was followed in all townships to the north and west of the 1927 area as long as specimens of the corn borer were found. As soon as corn borer was found and identified in a township, the scouts moved on to another township. For this reason, some farmers in lightly infested areas state they have never seen a corn borer and cannot understand why their locality has been placed under quarantine.

It must be recognized that finding the corn borer in heretofore uninfested areas is not an easy task, and that considerable experience is required. In heavily infested areas, broken-over tassels are usually an indication of corn borer infestation and the pest is easily located. In new areas, however, an intensive search has to be made to locate the insect.

As stated previously, when the pest is found, the scouts move on to another township. There is no use looking for more specimens as two or three corn borers, due to their prolific nature, are able to infest a whole neighborhood. To avoid this condition and the subsequent destruction wrought by the pest when left to go uncontrolled, is the purpose of the quarantine and clean-up.

Task Greater Than In 1927

The clean-up of the 1927 area was a gigantic task which was admirably accomplished by farmers and townspeople residing within that area. But the task for 1928 is still greater. In 1927, nineteen entire counties and parts of four others were included in the clean-up, while the area for 1928 comprises 32 entire counties and portions of five others.

The 1927 clean-up was a success
(Continued on page 16)

Predicts Bill Would Have Saved Hog Market

By JAS. N. McBRIDE

IT CONTRIBUTED to your paper recently an article on beans and since pork goes with beans this article will be about pork prices, which are a solar plexus blow to the Michigan farmer who has pinned his faith on the "Mortgage Lifters."

At the eleven principal hog markets of the United States there were marketed in 1926, 7,092,575 head of hogs and last year, 7,724,216. These additional 631,637 hogs cost the farmer 42 million dollars, apparently, for of the whole number marketed he got that much more for the smaller number of hogs sold in 1926 than the larger number of 1927.

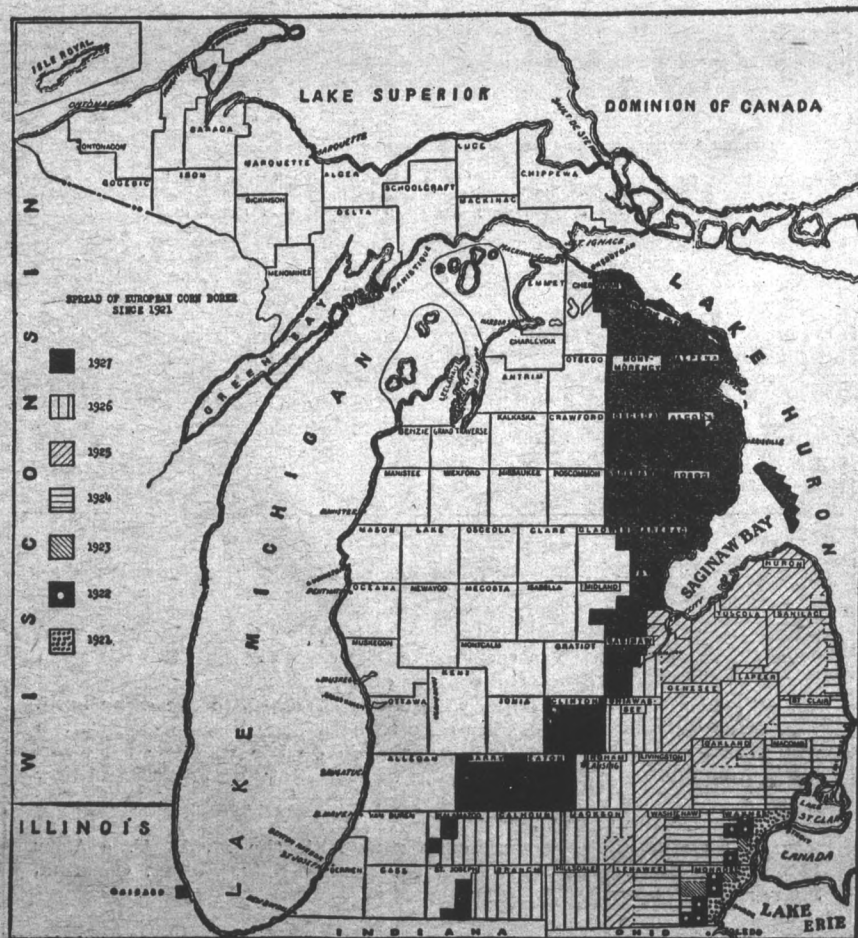
Without getting down to exact cents, the loss on the average hog marketed this fall has been close to \$5.00. Some force or power came along and said "\$5.00 please" and the farmer handed it over by taking that much less per head.

On the whole it is doubtful if there was any actual surplus, for reducing the heavier weights of the 1926 crop

owing to cheaper feed, there was apparently only 95 million pounds of live weight more, with the additional population increase of one million potential consumers each year.

President Coolidge's last message to Congress stated in connection with farm relief measures that "there was no sense in raising something no one wanted and then ask the government for relief." The President's error was, in the case of pork, that it was wanted and actually taken and will be consumed but at a loss to the grower.

Pathologists have expressed regret that the use of alcohol and narcotics made their edicts insensible to these drug evils or that the apparent pleasures distorted their viewpoints as to make their defense lacking in fact or logic. My revered instructor in economics in the University of Michigan once said the so-called "law of supply and demand" was destructive of economics because it furnished
(Continued on page 32)



The shaded territory and all crosslined territory makes up the area under quarantine on December 1st, 1927, for the European Corn Borer.

Let's Do Some Landscape Gardening This Spring

Here Are Some Suggestions That Will Help You Lay Out An Attractive Yard

By RUSSELL MCKEE

If it were possible, one of the first things that ought to be done to encourage those who have a desire to improve the home surroundings would be to apply for some sort of blanket injunction restraining fiction and other writers from referring to someone's grounds as having had the benefit of "an expensive landscape architect" or a similar phrase suggesting that none but the



Russell McKee

effect may have beauty about them. Such references are not always lacking in truth but are, nevertheless, very misleading in effect.

As a matter of fact there is not a home-owner anywhere but can, if he will, beautify his premises in a fashion suitable to the size of his purse, home and grounds. There is not a housewife who cannot by careful planning, small yearly expenditure and perhaps a little help on the shovel work from dad or the boys, create about her a soul-enriching beauty that will prove itself a source of pleasure and delight to all beholders—including her own family.

Most nurseries now have landscape departments which will, on receipt of a rough sketch showing outline of grounds, position of house and other buildings, fences, drives and all dimensions, gladly send a plan and estimate without charge or inform you on varieties and where and how to plant. If you do not care to make a start in this way you may gain copious knowledge of form, size and color from the wealth of information in seed and nursery catalogs. Arranging the material to achieve the desired effect is the most important thing to know and it is the purpose of this paper to work out a typical problem in a practical manner that, in principle, might apply to any front yard.

The city home-owner may have the best part of the garden in the back yard but on the farm this space is seldom available for the purpose so we will concern ourselves with the front yard only. All the elements of a complete garden may be incorporated within the confines of the front yard except extreme formality and that is seldom desirable anywhere. This does not mean the choosing of every type and color in the nursery list but that enough of pleasing variety may be included in a simple planting and that quality, not quantity, should guide your efforts in framing the picture which is home. A small garden with a two-color motif may radiate more beauty than one ten times its size with all the

colors of a crazy-quilt as crazily arranged.

Have Row of Trees

Beginning at the roadside ("A" on sketch) everyone ought to have a row of trees spaced thirty or forty feet apart. It is sometimes difficult to successfully transplant young trees from the edge of woodlot or swamp but it can be done and thousands of farmers have enough in such places to line the whole front of an eighty. Red maples, sugar maples, elms and what not. If you have none, vigorous young trees may be secured reasonably from the near-

est nursery and are almost sure to grow. Choose hardy, durable trees for shade purposes. Norway maple, American elm, sugar, red and silver-leaved maples are among the best in the order named. The Norway maple is a sturdy, beautiful tree of fairly rapid growth and long life. The sugar maple will never be replaced in the hearts of many but it is slower in growth. Of the balance the elm is most satisfactory. The list of suitable trees may vary with locality but are everywhere of first importance in the landscape.

Whenever possible the front yard

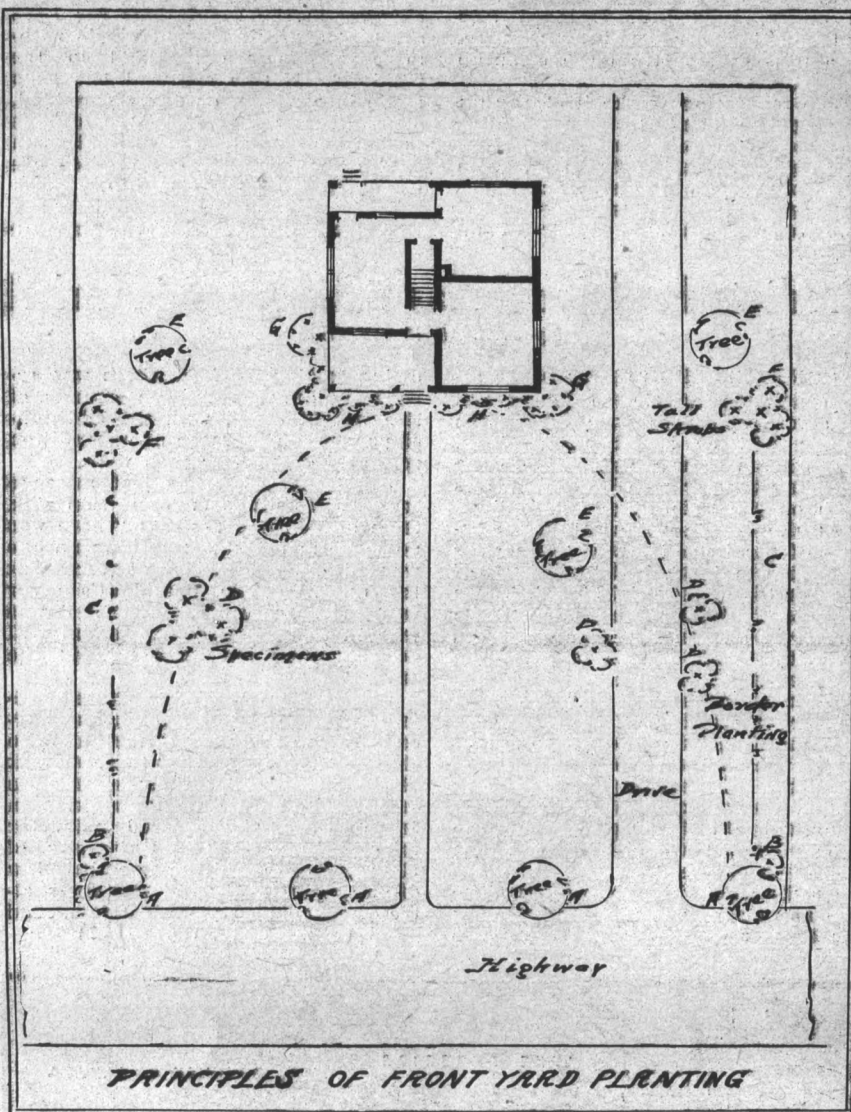
planting should be planned with the thought in mind that the home should not be hidden but rather framed as a picture flanked by billowing groups of foliage. Where the home is situated not too far from the center of the building site the desired effect may be obtained by starting at the corners near the road and placing the material along the borders in groups keeping outside an imaginary arc or irregular semi-circle having the house as its apex. Back in the gay nineties it was considered good form to set a perfectly round bed of cannas or something equally as showy right in the center of the front yard. But that era of the cast iron deer which stared so coldly from crockery eyes has passed. The principle of the open lawn is logical; even the planting of perennials or shrubs along both sides of a front walk has the unsightly effect of greatly decreasing the lawn space by halving it.

The front corners of the yard ("B" on sketch) should be marked as the edge of the foliage frame. Use low-growing shrubs if the house sets less than seventy feet back and taller sorts if more. Hydrangeas, weigelas and the showy Japanese quince are a few desirable grouping shrubs of the low sort for sunny locations. For shady spots, snowberries, Japanese barberry and some of the smaller spiraeas are suitable set three feet apart in groups of three or more. Do bed of five or less but each corner may differ as to color. Among the taller shrubs the bush honeysuckles are very satisfactory with pink Tartarian one of the best. Viburnum opulus, the high bush cranberry, is a gorgeous red-berried shrub in winter and its broad, white blossoms are unsurpassed but are more properly used nearer the house as they grow to twenty feet. The list of suitable shrubs for any purpose is long and, aside from your preference in color, the important thing to consider is the ultimate size.

Side Borders

The side borders of the yard ("C" on sketch) may properly be utilized for everything from annuals to trees but in the farm front yard these areas are best used for beds of roses, perennials, annuals and bulbs. The border may be four or more feet wide, extend to a point even with or beyond the house corners in a straight line or be laid out in graceful curves from three to six or more feet wide. The tall perennials should be ranged at the rear with successively lower material such as roses and annuals in front. If you would please your own and other critical eyes beware of too much mixing of color in these borders. White can hardly be overdone as it harmonizes with any color, but it is obvious that

(Continued on page 34)



Do not attempt to hid the house. Frame it as a picture flanked by billowing groups of foliage. Where the house sets quite far back from the road one has a much better opportunity to lay out an attractive yard than where it is right near the highway.

A Courageous Conviction Necessary To Drive Out Thieves

A COUPLE of weeks ago we went back to the old home town for a week-end with father, mother and the rest of the folks down on the farm. When Sunday morning came we went to church with mother—father staying at home to keep up the fire. One cannot help but notice that it is much easier to go to church on Sunday in the wholesome atmosphere of the farm or small



Mr. Follen

town as contrasted to the hurly-burly of the city. I have always felt that one gets a little nearer to God in the country than in the city, even though Christ taught us that God is closer than our hands.

When we went into the church we found it quite easy to march away up to the front when not so many years ago we were right in the back

row with all the other noisy boys and girls of the dear old days when we were "just kids." Memories crowded thick and fast upon us as we recalled all the old pals of other days who had long since gone out into the world to conquer, but this is

the story of a cold-blooded chicken thief and we must not get sentimental.

There are real reasons, however, for mentioning our visit to the old home church. We don't think it is a bad idea to let you know that we

are of the God-fearing people, that we still go to church from time to time, and what is more important, we heard in this village church a sermon that would do credit to any "man of the cloth" in our large cities.

Get a Conviction and Carry It Out

The preacher handled the difficult subject of prohibition in splendid shape. He had no solution to the whole question as so many non-reconcilables have, but he made a strong plea for the conviction that characterized the early Christians, and that made our forefathers strong in their faith. He pointed out that we had become a people without any conviction, and as we listened our minds could not help but wander out into the wide open spaces and think of our great BUSINESS FARMER family of nearly 100,000 farm folks; we too, need this same conviction that the preacher was talking about if we are ever to completely drive from the rural districts the thieves who pay in the night.

(Continued on page 32)

MR. FOLLEN THANKS US FOR REWARD

The Business Farmer,
Mt. Clemens, Mich.

Was very much pleased to receive your letter containing the good news that I was entitled to receive the fifty dollar reward the Michigan Business Farmer gives for the capture of a poultry thief.

Received Mr. Slocum's letter with check enclosed, in the same mail.

A mere "Thank you" seems to me to be a poor way to express the way I feel about it. But knowing as you do the way the case was taken care of in the Corunna court, I'm sure that you understand how much I appreciate the interest that you, a stranger, showed in helping me to receive the reward.

Wishing you and everyone connected with the M. B. F. a Very Happy and Prosperous New Year, I remain,—Edw. Follen, Corunna, Shiawassee County.

THRU OUR HOME FOLKS' KODAKS



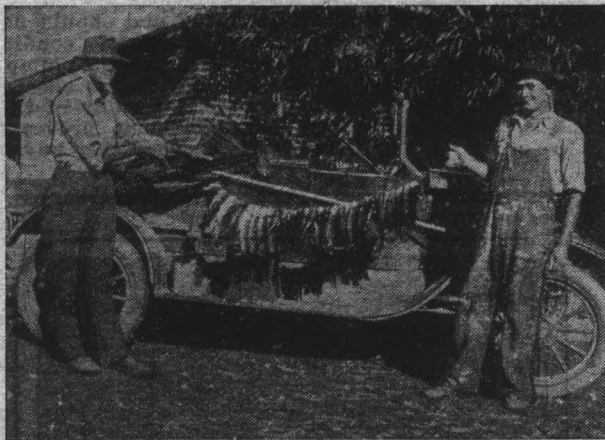
ARE THEY TELLING SECRETS?—These two "young ladies" are the daughters of Mr. and Mrs. George Penfold, of Charlevoix county.



"PERFECT CONTENT."—That is the title suggested by Mrs. Ira Woodruff, of Antrim county, for this picture of Doneva Woodruff, her little granddaughter, with her pets.



Doris Jean.—"She is the daughter of Mr. and Mrs. C. Van Den Hout, and our granddaughter," writes Mr. and Mrs. H. Milner, Kalkaska county.



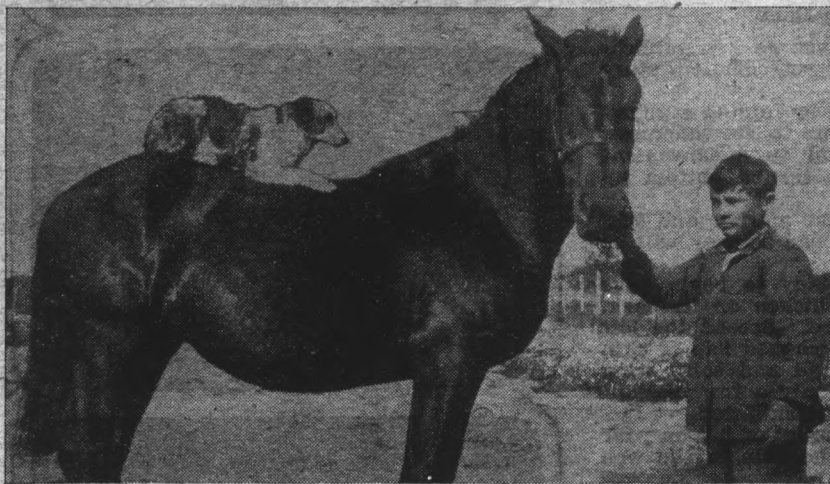
HOW IS THIS FOR AN EVENING'S CATCH?—Not bad, eh? William Stock and Ed Stock, of Saint Joseph county, had a busy time of it pulling in this string of fish during one evening, according to Mrs. William Stock, who sent the picture to us.



WOULDN'T YOU LIKE THIS BASKETFUL?—It is Louise Anders, little daughter of James Anders, of Barry county. It was taken when she was six months old.



GRANDPA AND HIS "HIRED MAN" MAKE HAY.—Grandpa is H. Rasmussen, of Montcalm county, and his "hired man" is his eleven months old grandson, Alfred Sabin, Jr., of Kent county. We are indebted to Reva Rasmussen for the picture.



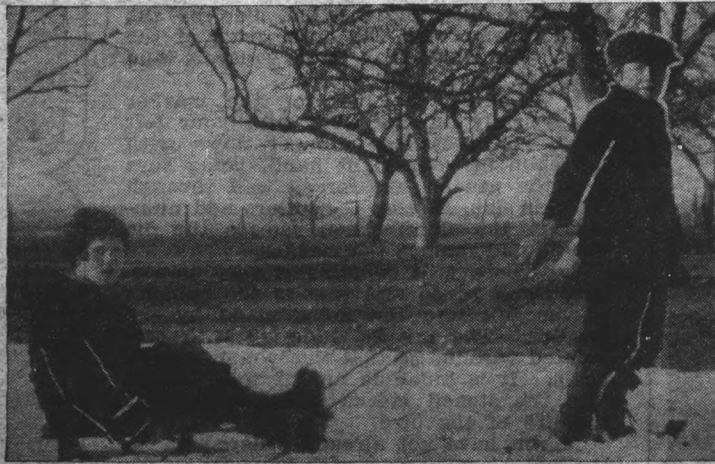
"WHAT WE RAISE ON OUR FARM."—Eunice Hansen, of Osceola county, sends in the picture and suggests the title. It is her brother Frank with his pony and puppy.



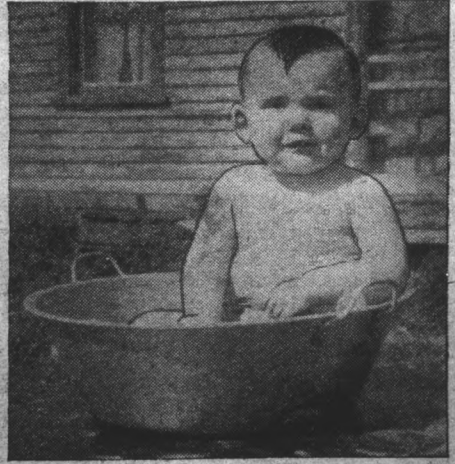
KREITZER FAMILY GET TOGETHER.—Mrs. George Kreitzer, of Saint Joseph county, writes that this is a reunion of the Kreitzer family of 7 sisters and 4 brothers.



HOW ARE THEY BITING?—This is said to be Dr. T. D. Waller, of Chicago, on his first fishing trip to Grayling, Mich. No danger of falling in when you fish this way.



ENJOYING THE LAST SNOW IN THE SPRING OF 1927.—Laurel and Lauren Whipple are nine year old twins of Mr. and Mrs. Earl Whipple, of Missaukee county. Lauren is taking his sister for a ride on St. Patrick's Day of last year on the last snow of the winter.



"A MICHIGAN PEACH."—That's a pretty good title for this picture, isn't it? It is Lowella Marie, little daughter of Mr. and Mrs. Carl Muma, Menominee county.

Small Supply of Michigan-Adapted Alfalfa Seed

Ontario Variegated, Which Has Proven Popular with Farmers, is Especially Scarce

SUCCESS with alfalfa in Michigan is dependent, quite largely, upon sowing adapted seed. Experiments conducted at the Michigan Experiment Station and observations made by Michigan farmers show that alfalfa seed from mild climates is unadapted to Michigan conditions and responsible for many failures. The making available of quantities of adapted seed from dependable sources has been one of the important factors in establishing over one-half million acres of alfalfa in Michigan.

In 1921, the Farm Crops Department secured alfalfa seed from most of the important seed producing sections. This seed was sown on one of the college fields and the plots have been harvested for hay each year from 1922 to 1927, inclusively. The various lots of seed may be divided into three rather distinct groups, according to their adaption to Michigan conditions.

Group one consists of the variegated alfalfas such as the Hardigan, Grimm, Cossack, and Ontario Variegated; all of which are adapted but some of which are not always available. Last year, Ontario shipped into the United States about 5,000,000 pounds of alfalfa seed and, in Michigan, Ontario Variegated was a very popular strain of seed. Due to unfavorable weather conditions, Ontario

produced only 500,000 pounds of seed this past season, which likely will not be enough for her own use. With the exception of a very slight carry-over, dependable Ontario Variegated seed will be very scarce and high in price. Many farmers, who in past years have sown Ontario Variegated, will have to use other seed this season.

Fair Supply of Grimm

There is available a fair supply of adapted Grimm seed from dependa-

ble sources. While this seed is somewhat higher in price than common nevertheless many excellent seedings are being secured by sowing eight pounds of this seed per acre. Far more profitable stands are secured by sowing 6 or 8 pounds of adapted Grimm seed per acre than by sowing 12 or 15 pounds of unadapted seed and there is very little difference in the cost of the seeding.

The Hardigan is a superior seed producing strain developed by the

Farm Crops Department. As a forage producer, it ranks with the best. It has been introduced only a short time and the supply of seed is limited. The Cossack is essentially the same in performance as Grimm and the supply of seed is materially less.

Group two consists of common seed from Utah, Idaho, Montana, Dakota, Michigan and other northern and high altitude sections. While not as winter hardy as those strains listed in group one, still when seeded under fairly favorable conditions and used in rotations, good results are secured. The price is somewhat less than that of the Grimm; the source, as a whole, is dependable and the supply good; consequently a considerable proportion of the alfalfa seed used in Michigan this coming season will belong to this group.

Group three consists of Hairy Peruvian and common seed from Arizona, New Mexico, and Southern California; also imported seed from South America, South Africa, and Turkestan. The seed of this group is responsible for many failures, is not winter hardy and should not be sown under Michigan conditions. Since this seed is usually plump and has a bright color and is cheaper in price, it constitutes many of the so-called "bargains" but proves very costly to the unsuspecting buyer.

By PROF. C. R. MEGEE

Department of Farm Crops, Michigan State College

3000 Attend Hastings Ag-He Show

THE Sixth Annual Ag-He Exposition which was recently held at Hastings High School, Hastings, Michigan, was a decided success. This Exposition which is the largest agricultural and home economics show in Barry county is recognized as a leader of its kind in Michigan and also this section of the country and has gradually grown in both quantity and quality of exhibits. The exhibits this year totaled close to 1,500 and an estimated attendance was 3,000 people.

It is sponsored by the Agricultural Club of the High School, consisting of 60 members, under the direction

of Mr. T. N. Knopf, agricultural instructor, and Miss Ruth Marks, home economics teacher. It has grown to be a county wide proposition showing the excellence of central Michigan agriculture and home products for which suitable prizes are given.

Those knowing its value consider it a fine educational feature. The chairman, Louis Brown, and his assistants, Miss Rachel Cain, Leland Stanton and Lowell Whittemore, backed by the Agricultural Club, high school and business men, have set a record for which Hastings is justly proud.

How to Mark Your Chickens

WE have had several inquiries from subscribers on how to use The Business Farmer's Poultry Marker. Some seem to be under the impression that it will be a difficult task and hesitate to order a marker for that reason. This is far from true because it is a very simple matter to put on the indelible mark. Very complete directions accompany each marker so that anyone cannot do it wrong.

How It Is Done

The eight illustrations we are publishing give a fairly brief yet complete story of the process.

1. You make a pad by folding a gunny sack using at least four to six thickness. Then you lay your pad on a convenient work table. A barrel turned bottom up does very well.

2. Next get out your marker and ink, placing them near the pad so they will be handy.

3. You are now ready to begin your marking. Place the chicken on its back, as shown in the picture. Spread the left wing and locate the V shaped flap of skin between the first, second and third wing joints. You will find only a few feathers on the under side of the skin flap.

4. Take a small amount of ink on your finger and rub it on the skin in the web of the wing.

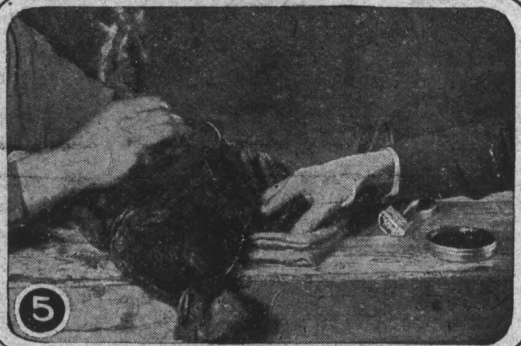
5. Be sure that the ink is thoroughly rubbed in on the spot where the mark is to be applied.

6. Now place the marker squarely on the triangular piece of skin in the web of the wing, keeping the flat side of the marker even with the outer edge of the wing. Be sure that it is squarely and firmly in place.

7. Holding the base of the marker down firmly on the wing with your left hand, you press the plunger down with the palm of your right hand, being sure that the needles are forced well through the skin flap, leaving the letters and numbers in the skin. Then release the die handle and remove the marker.

8. There still remains a very important thing to do and that is the rubbing of the ink into the holes made by the needles. The ink is made up with carbolated vaseline so that the wound readily heals. It is indelible and if well rubbed into the stencil marks will last through the life of the bird.

If you have not already ordered an M. B. F. Poultry Marker with a special registered mark do so now. A coupon for your convenience appears elsewhere in this issue.



"Invisible Values"

*How may you be
sure in advance of
what only time and
use will prove?*

SCORES of the items which you buy from day to day must be taken on faith. Strong claims may be made—quality may be argued—yet how may you be sure that what you buy will meet the one test that counts—that allows of no evasion—the test of time and use?

You cannot be an expert on scores of different varieties of merchandise. There is, however, one certain, sure, safe way to buy everything you want.

Send for your Montgomery Ward Catalogue. Select your needs at your leisure. Mail your order. Back will come merchandise which is absolutely certain to give you those "invisible values" you demand. All that you buy from Montgomery Ward is guaranteed to be as represented. The facts about quality are clearly stated in the catalogue. The items are illustrated. You are the sole judge of whether the things you buy are satisfactory. If you are not pleased you can have your money back. How can we make so sweeping an offer?

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We sell only good merchandise that answers your needs, meets your most exacting requirements and fulfills your

expectations. We can do this because we test everything we buy.

For 56 years Montgomery Ward has kept faith with its patrons. It is not surprising that more than ten million people buy from us, but it is gratifying.

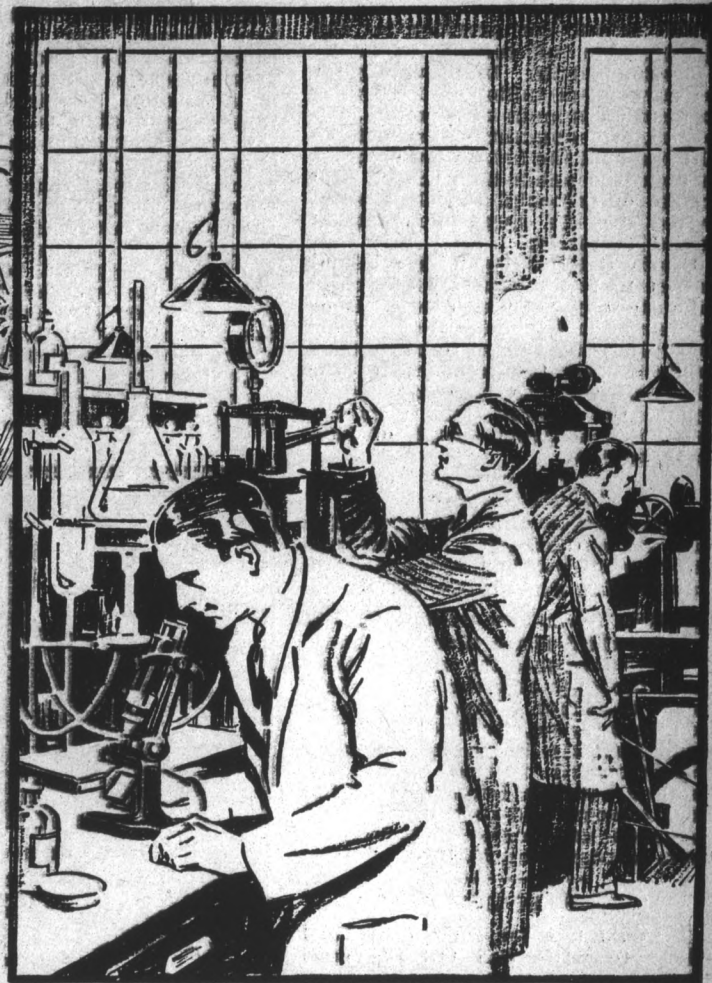
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So that with our all-inclusive guarantee you get lower prices. In fact, you will not find so great a variety at such low prices even in the greatest stores of the largest cities.

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PAY TUITION TO PUBLIC SCHOOLS ONLY

Is it legal for a school district to pay tuition for any child going to a private school such as the Ferris Institute? Would school board be liable if they did? Do they teach the 11th and 12th grade at such a school?—A Subscriber, Wexford County.

THE school law provides for the payment of tuition to public schools only. In providing for the payment of tuition in the grades no mention is made of a private, parochial, or denominational school. In a high school, the tuition law specifies an approved public high school. No private or parochial schools are approved by the Superintendent of Public Instruction.

Briefly it is not legal for a school district to pay tuition for any child going to any private, parochial, or denominational school. If the school board does pay tuition to other than public schools the treasurer of the school district can be compelled to replace the amount paid from his own personal funds.—Dept. of Public Instruction.

THIRD SHARE

I am a widow and I have rented a farm on a third share. What am I to furnish, half hay, and one third grain?—Mrs. F. F., Tyre, Mich.

WHEN farms are rented on the two-third share plan, the landlord furnishes the land and personal property and the tenant furnishes the labor. Expenses such as feed, seed, swine, fertilizers and machine hire are borne in the same proportion as income. That is, landlord receives two-thirds of the stock increase and cash income, and the tenant one-third.—F. T. Riddell, Farm Management, M. S. C.

MOON SIGN INFLUENCE

I would like for some dear good friend to write and tell the good signs when to plant garden vegetables and fruits, potatoes and pumpkins, corn, grass, wheat or any farm product for best results. My mother was very particular and father also and I will be very much pleased. I am very much pleased to read *THE BUSINESS FARMER*; my son Fred takes it.—Mrs. H., Bangor, Michigan.

THE signs of the zodiac are grouped into the elements of fire, earth, air and water. The moon passing through these signs is supposed to develop upon the earth similar characteristics of the signs. The watery or fruitful signs promote growth in plants when planted under their influence; that is, when these signs are rising and especially when the moon is rising also.

It should be understood that not all people will have the same success operating under this method of planting. Much depends upon whether the person is strongly adapted to farming.

Other conditions being equal the general activity of the seed planted is said to be as follows: Aries, for plants not requiring much moisture; seed will germinate rapidly. Taurus, for slow growing root crops, especially of the cool weather variety. Gemini best for killing weeds. Can-

cer, very good for gourds, melons, pumpkins, squash, cabbage, cucumbers, beans, peas, and tomatoes. Libra good for grain and quick growing crops. Scorpio, good for most plants. Sagittarius produces rapid germination but not as good for food production as some other signs. Capricornus, good for root crops. Pisces, plants requiring moisture should be planted when the moon is in this sign.

Aside from the sign influence attention is supposed to be placed upon the fact whether the moon is increasing or decreasing in light. Seed planted near the full of the moon develops more stalk than root and vice versa. Hence grain should be planted in the light of the moon and potatoes, radishes, etc., in the

tion between the various issues of coin and paper currency of the United States, neither receiving or paying a premium in any case. Every once in a while a story gets around that the government has "called in" a certain issue of currency and is paying a premium on it. The government has never "called in" any coin or paper currency and all statements to the contrary are erroneous.

OWNER GETS THIRD AND TENANT TWO-THIRDS

seed out of his own grain? Also If a man rents a farm on the two-third basis furnishing the stock, tools, etc. (the tenant I mean) how much further should he go? Should he pay for all the boughten seed? Pay all the thresh bill and take other



READ ANY PAPER BEFORE YOU SIGN IT

The fellow on the left has the right idea. When he is asked to sign a paper he reads it very carefully so he will know what he is putting his name on. But the fellow on the right is always ready to sign any and everything without paying attention to what it is. He lets the agent read the paper and then he signs on the dotted line. When he gets too old to work he will have to live at the poor house because he gave away his money.

dark of the moon under proper signs.

One correspondent tells us that he has found without fail that late potatoes planted during the full of the moon in June will grow up bugless. Another tells that beets planted when the moon is passing through Libra with the moon increasing in light produces quick germination and a good crop.

This part of farming lacks coordination and we will be glad to receive through *THE BUSINESS FARMER* experiences along this line and the result with a view to establishing a set of rules that all might follow, providing the experiences are not too contradictory.—Pritchard's Weather Forecast.

NO PREMIUM ON NICKELS

I read an article in some newspaper that the government would pay five dollars for liberty nickels, dimes and quarters. I would like to know if this is true.—F. S., Cass County.

APPARENTLY the newspaper you read the article in is not a very reliable one because the U. S. Treasury Department makes no dis-

should the man owning the farm help feed the tenant's horses out of the undivided hay and grain? We bought 12 tons of hay and brought 300 bushels of oats with us. Now when we leave the place should the 12 tons of hay and 300 bushels of oats be taken from the quantity on hand before there is any division made?—D. J. S., Bath, Michigan.

FARM rented on one-third basis, namely, landlord furnishing land and receiving one-third and the tenant furnishing labor and equipment and receiving two-thirds of income. Such expenses as feed, purchased seed, twine, and thresh bill should be borne in same proportion as stated above by landlord and tenant. Work horses not to exceed required number to operate farm should be fed out of the undivided feeds raised on farm. The feeds bought on farm by tenant can be handled either by the landlord buying his share at outset or offsetting the required amount or the tenant can take the amount brought on farm at outset.—F. T. Riddell, Research Assistant in Economics, Michigan State College.

BUYING LICENSE

Last winter I could not run my car on account of the roads being blocked but I bought my license right away just the same. Do I have to buy my 1928 license at once?—T. B., Hillman, Mich.

IF you have your car stored and do not intend to drive it you would not have to buy your license at this time, but you could not drive or operate the car along the highways with 1927 license plates as the law states that plates for the current year much be displayed conspicuously on the car. To use the car now along the highway with 1927 license plates would be making yourself liable to arrest. But if you do not intend to use the car until next spring there is no reason why you can not put off buying your new plates until just before that time.

SHOULD PAY PART OF THRESH BILL

A year ago I rented my farm to a man who had nothing to do. I furnished team, feed, seed, tools, and cows. Gave him all of the poultry, and he did all of the work, and as he did not have to furnish a cents worth of anything, not a cent invested, he thinks I should pay two-thirds of the thresh bill. Now I claim that he should pay his one-third as I claim threshing is in the work. I have worked land on shares and have paid the whole bill where there was no agreement otherwise.—J. L. R., Clarksville, Michigan.

THRESHING is one of the farm costs that is borne by both parties in the same proportion as income. In your case it would mean that as stated, the landlord pay two-thirds and the tenant one-third of the machine hire expense. The tenant of course should furnish all labor outside of the machine operating crew.—F. T. Riddell, Farm Management, M. S. C.

WOULD DUTIES INTERFERE?

Can you please inform me if a man can hold two offices and be legal, such as city marshal and deputy sheriff in a village at one time?—W. T. W., Eaton Rapids, Mich.

THE law states that one person may not hold two separate offices in the same county or township, if the duties of one would conflict with or interfere with the duties of the other. It would appear to me the duties of the two offices you mention would interfere with each other.—Legal Editor.

DUTIES OF ADMINISTRATION

Please advise me as to the duties of an administratrix? Is it their place to figure up the account book or does the judge do this? Can the administratrix divide the money left over from the farm until the farm is sold or must she take it before the judge?—R. M., Coldwater, Mich.

THE administratrix would collect the property of the deceased, pay the debts and distribute the remainder among the heirs. She would have authority to divide the money left after the sale of the farm and the payments of the debts. However, she would be required to give to the court an itemized account of the transaction.—Legal Editor.

HERE'S HOW

To Care for Baby Chicks

By Ray Inman

A GOOD WAY TO CARE FOR BABY CHICKS
IS TO GIVE 'EM TO AN OL' HEN
AND LET HER DO IT—

THERE, BIDDIE—
A NICE LITTLE FAMILY
FOR YA T'RAISE!

SAY, WHAT
DIRTY TRICK
DID I EVER
PLAY ON
YOU?

but if you use an INCUBATOR
KEEP TEMPERATURE UNIFORM
—CHILLING IS FATAL—
—OVERHEATING IS ALMOST AS BAD—

DID YOU PUT THEM BABY CHICKS IN AN INCUBATOR LIKE I SAID?

SO THAT'S WHAT YOU SAID!
—FIRST I PUT 'EM ON THE RADIATOR—THEN I PUT 'EM IN THE REFRIGERATOR—THEN IN THE INCUBATOR.

KEEP 'EM CLEAN!
GIVE 'EM GRIT, CHARCOAL AND GRANULATED BONE IN HOPPERS
also plenty of water!

WILLIE—
DID YOU GIVE THE CHICKS PLenty OF WATER?

SURE—I FILLED TH' BATH TUB WITH WATER—AN' PUT 'EM RIGHT IN!

DON'T FEED 'EM UNTIL THEY'RE 60 HOURS OLD
they FEED A RELIABLE CHICK MASH* AS DIRECTED BY THE MANUFACTURER.
*BUY IT AT THE FEED STORE—

M.A. ARE YOU SURE YOU BEEN FEEDIN' THEM CHICKS MASH?

SURE! I TOOK IT RIGHT OUT OF YOUR OLD STILL!

I'M NOT CRAZY HAVE YOU?

SHAY, OK TOP NEVER SHES ME BEFORE? (W.C.)

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BACK of every great industry are the ideals of some pioneer, some leader, some master-mind—that hew close to the line of some great principle. To operate in strict conformity with the principles of the Golden Rule was the ideal of Mr. J. C. Penney when he founded the family of J. C. Penney Company Department Stores in 1902.

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an unwavering ideal—was the beginning of a mercantile achievement which, twenty-six years later, was to be a boon to the consuming public thruout the United States.



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For Women, Misses and Juniors
—in the latest styles, colors and materials—invite your immediate attention

The work-dresses of the house—Our House Frocks at 79 cents—are preferred by thousands because of their superiority and style.

We recommend Jael Toilet Goods for we know them to be pure, efficacious and a delight to use. Sold only in our stores.

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The J. C. Penney Company Store nearest you, cordially invites you to call, to judge for

yourself its values and its preparedness to serve you well and save you more.

Our Spring Store News Catalog will tell you of many economies. If your address is not on the mailing list of our Store nearest you, please send it. The Catalog will be ready soon after March first.

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Alpena
Battle Creek
Benton Harbor

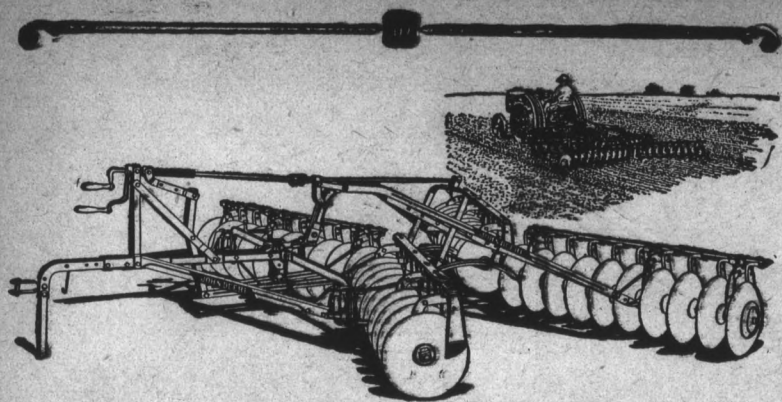
Big Rapids
Cadillac
Calumet
Caro
Cheboygan
Coldwater
Crystal Falls

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



See These Improved John Deere Disk Harrows

JOHN DEERE DISK HARROWS have always been famous for better work and longer wear. Now, with their latest improvements, the John Deere Model L Tractor Disk Harrow and the Model B Horse-Drawn Disk Harrow are even stronger than ever before. See them at your John Deere dealer's the next time you're in town.

Put the Model L Behind Your Tractor

The improvements embodied in the John Deere Model L include wider and heavier frame; angle steel main frame braces; pivot connection between main frame and gangs; new pivoted yoke and draw-bar guide; more carbon in steel wearing parts; heat-treated disk blades—improvements which make the John Deere Model L a stronger and heavier harrow.

Disk blades of long-wearing alloy steel hold their edge better and last longer—they penetrate in the severest conditions.

The convenient angling cranks that permit angling front or rear disks without stopping; automatic yielding lock coupling that aids rear disks in cutting ridges left by front disks; unusual flexibility—these features insure the kind of work you want.

Its Flexibility Means Better Work

The John Deere Model B has always been the popular horse-drawn disk harrow—now, with important improvements it will give even greater satisfaction.

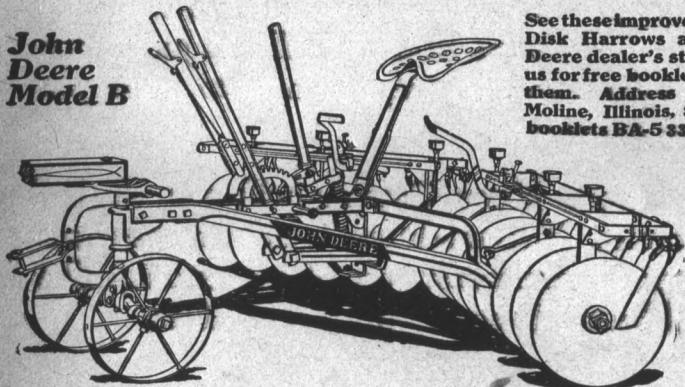
Independent action of the gangs on the John Deere Model B Disk Harrow gives it unusual flexibility—one gang can pass over a field obstruction or conform to field conditions without interfering with the

work of the other gang. An even job of diskling results.

The Model B, like the Model L, has improvements that mean greater stability and longer life. In fact, the Model B now has tractor harrow strength.

The pivoted yoke controlled by powerful pressure spring and third lever insures uniform work in irregular ground—penetration is always under control of the operator by means of third lever.

John Deere Model B



See these improved John Deere Disk Harrows at your John Deere dealer's store. Write to us for free booklets describing them. Address John Deere, Moline, Illinois, and ask for booklets BA-533.

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Brooder Houses ☐ Hog Houses ☐ Mills ☐



Broadscope Farm News and Views

Edited by L. W. MECKS, 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. Refuse him care of M. S. C. and you will receive a personal reply by early mail if you are a paid-up subscriber.)

County Agents

CONSIDERABLE comment is made concerning methods of reducing the high taxes. In our county, and I am saddened to tell it, a move was made to lower taxes by



L. W. Meeks

doing away with the county agent. We have had a county agent for many years and it would take a volume of M. B. F.'s to tell all the good they have accomplished. It seems without a county agent there is no one to direct anything or to start anything which will be of interest to farmers. Strange as it may seem, city people don't kick on having an agricultural agent, and these city people have to help support him by their taxes just as the farmers do. Our county agent had a number of active projects started and some were of long standing. With his dismissal all these simply stopped. The loss cannot be estimated. It seems strange people think so much of "Does it pay?" "Where is the money in it?" etc.

Come now, let's be honest. Our court house is situated in the center of a block, the block being in the center of the city. The court house grounds are kept in almost perfect condition. The lawn is beautiful. But couldn't we get along without this pretty lawn? Let it grow up to weeds, burdocks, Canada thistles, etc. It wouldn't hurt the county records any. They could hold circuit court in the building just the same. But who would think of such a condition as being for the best interest of Hillsdale county? No one. But if money is all there is to think about, a little money could be saved to the taxpayer if that lawn was neglected. But would there really be any money saved in the full sense of the word, to neglect the lawn? Sure not—it would be a very expensive piece of economy, and so it is with the exit of the county agent.

He didn't drive around the county handing out ten dollar bills to all the farmers. He didn't run a business where it would have been possible for him to turn over ten thousand dollars to the Supervisors every time they met. His business was not classed as a mint. But he did make money for the farmers just the same.

Without a county agent it is a safe bet that Hillsdale county would never have been known to be free of T. B. cattle. This cattle test was the beginning of an era of prosperity in the cattle industry. Buyers of milch cows came from many distant states to round up a carload of Hillsdale

tested cattle. Fact is, the farmers of Hillsdale county received enough more for the cows they sold and shipped out of the county in the last four years to pay a county agent for many years. But looking after the cattle test was a small part of his activities. He fostered the county poultry association, and was active in securing marl digging demonstrations and giving advice on the use of lime. He was always on the watch for some good to pass on to the people.

There are some three hundred women in the county who are very much disappointed to find out that their three years sewing project, which had just been started by the extension department of the M. S. C. through the instrumentality of our county agent, has ended. The College authorities seem to think any county that will not support a county agent is too far behind the times to benefit by extension work.

Who Pays Anyway?

But who pays the county agent? Most of the farmers who oppose the office of county agent do not know that a county pays only about one half of his salary. Who pays the other half? The State pays about equal with the federal government in paying the other half. So whether you have a county agent or not, you are helping to support all the other county agents.

How much does his salary add to the farmer's tax? Just the same as it does to the city man's tax. In the average county with a valuation of say, thirty six million dollars, the agent's salary would add about five cents for each thousand dollars of valuation. A farmer assessed at five thousand would have to pay about twenty-five cents toward the agent's salary. It would seem any farmer with a five thousand dollar farm, who could not benefit twenty-five cents per year by having a county agent must be conducting his farm in a very self sufficient manner.

Well, Hillsdale county is going to vote on the subject at the spring election.

If your county has a county agent, do not under any circumstances do away with him. If you haven't a county agent in your county, get busy and get one. If you have an agent go get acquainted with him. He's a good fellow to know. Tell him to call on you—he may know more than you think he does. If your county agent is not a satisfactory one, tell him so and get another.

The Poultry Mash

In the January 7th issue, mention was made of our laying mash. This has brought about numerous inquiries about scratch grain, etc. Here are some of them:

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 home of Mr. and Mrs. Dick Lisch, of Kankakee county. The picture was sent in by Mr. Lisch's brother, Herman Lisch.

"Is this mash fed in open hoppers all the time?" It is. We have over five hundred hens that have never seen a minute since they were seventy-two hours old when there was no feed before them.

"Do you feed scratch grain twice each day?" We feed it three times. For each 100 hens we feed about five quarts of good wheat early in the morning, at noon about three quarts of heavy oats, and at night about five quarts of shelled corn. If they seem to leave a little corn when they go to roost we don't care, but if they pick it all up and seem to scratch for the last kernel, we throw out a little more, or sometimes a little wheat. At any rate, they never go to roost without all they will eat. And they always want a drink about this time so the water pails are filled before the night feed is given.

"Isn't wheat too expensive to feed?" Some think it is. We do not think so. After all is said and done wheat is a wonderful poultry feed. Twenty years ago I was going home from town when two neighbors of their company. One lived east of their company. One lived to the east of our farm and the other to the west. It was in December and several bags of wheat were on the wagon. The farmer "to the east" began the conversation, which ran something like this. "Lou, what you got in those bags?" Reply was "Wheat." What you buying dollar and quarter wheat for? Answer, "To feed the hens." "My, how can you afford to feed wheat to hens when corn is so much cheaper? I feed mine nothing but corn and they look fine." Reply (by neighbor on the west), "Yes, your hens look nice but they don't lay, and Lou gets eggs by the basket full. His eggs cost him just the difference between the price of wheat and the price of corn." I might add that at this particular time wheat was "way up in price" for the average of those days, but the fact wheat had taken a "jump" did not cause me to feed less of it.

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.)

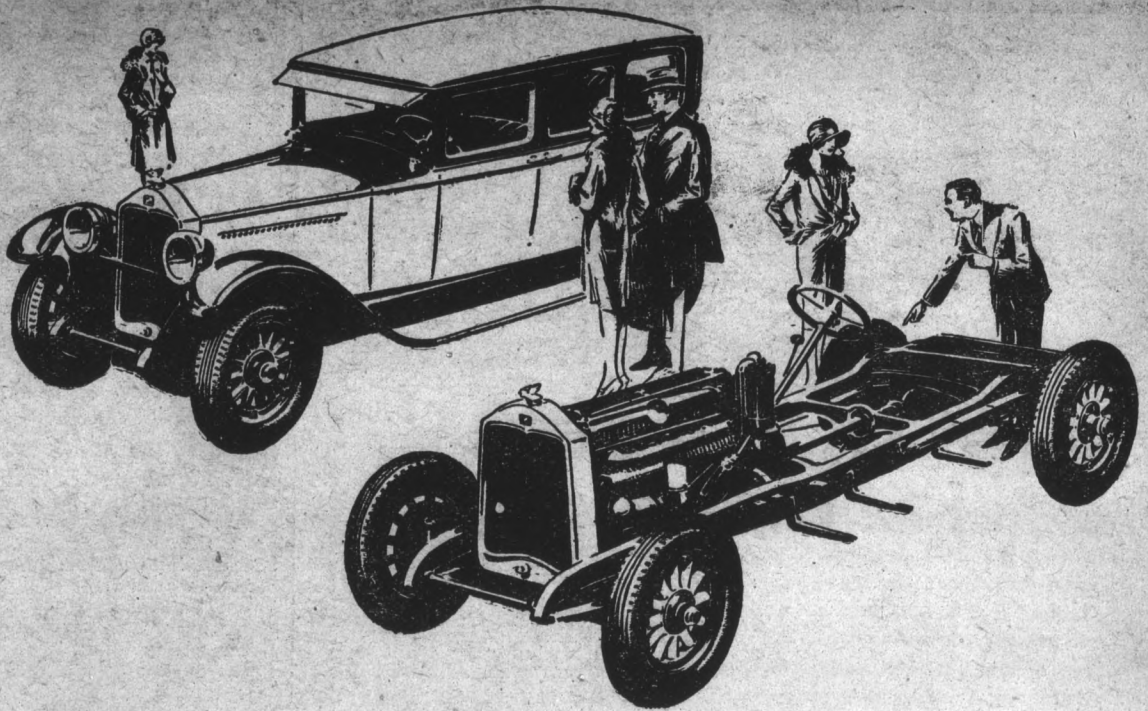
LIST OF BULLETINS.

- 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.

Bulletin No. 34.—SUCCESSFUL POTATO GROWING. This bulletin starts off with discussion of the seed bed and the importance of planting good seed. Then in turn it takes up planting, fertilizing, spraying and cultivating.

Enclosed find \$1.00 for which please renew my subscription to the M. B. F. for three years. We could not get along without it and it is wonderful the way you help people out of their trouble and warn them against money sharks.—Alvin Hagner, Sanilac County.

Please find enclosed \$1.00 to renew my subscription for two years. I have been a reader of your paper for quite some time and could not really get along without it now. I also wish to say that I now have a radio and enjoy your reports very much. I consider them a great help to the farmer and hope you will continue them.—L. C. Sudgen, Genesee County.



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The man who buys a home goes over it thoroughly from roof to basement, to make certain that it has the sound construction that means long and enduring service.

That's the way to buy a home—or a motor car. And that's the way to prove the fundamental superiority of Buick for 1928.

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SEDANS \$1195 to \$1995

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J. E. Rush, Bonilla, S. D., says: "I have 160 acres cross fenced into 5 fields. Turning stock from field to field, as crops are taken off, saves more feed each year than the original cost of the fence." A. B. Reif, DeQueen, Arkansas, writes: "It was a good fence that sold my eighty in Langdale County, Wisconsin, at a good price in 1922 when it was almost impossible to sell any farm."

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"Galvannealed"—Copper Bearing

does all these things, and more. Pays for itself in 1 to 3 years from extra profits alone. Can't help but last for many years. Extra heavy "Galvannealed" zinc coating keeps rust out. Copper in the steel keeps long life in. Full length stays, wavy line wires and the Square Deal can't-slip knot help make this trim looking, hog-tight, bull-proof farm fence cost less by lasting longer. Ask your dealer to show you RED BRAND FENCE.

What has been your experience with or without good fence? We will pay \$5 or more for each letter that we use. Write for details, catalog and 3 interesting booklets that tell how others have made more money with hog-tight fence.

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Your satisfaction guaranteed by the GLOBE Brand, famous for quality for three generations. Make your buildings lightning proof, weather proof, fire proof and vermin proof. Write today for prepaid prices and sample. (10)

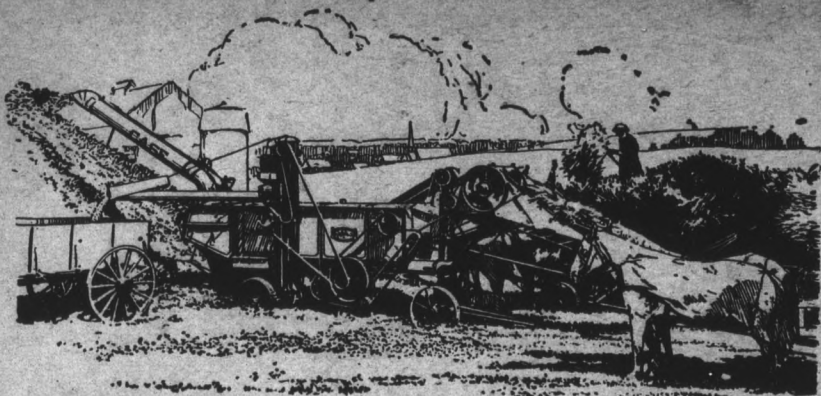
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The Business Farmer, Mt. Clemens, Mich.



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Every Case Thresher is a gold bond investment for a grain grower because:

It pays big dividends in annual earnings long after the price is forgotten.

It will work for twenty years or more and its depreciation and upkeep cost is practically negligible.

It is recognized as the standard thresher wherever grain is grown—a position it has earned by continuous progress for three generations.

The price of a Case steel thresher may be higher than the price of some other makes but so outstanding is its value that there are more Case threshers now in use than any other three makes combined. Because of their satisfactory performance, long life and economy, they are the most profitable for you to own.

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One or more of these highly valuable books may be obtained by returning this coupon, or writing. If account book is wanted please indicate make, size and age of thresher owned.

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"When you come t' a hill you can go 'round it, if you've a mind to—generally better for your backbone if you climb it. Backbone is what keeps folks straight. Th' backbone of a fence is th' steel wire, an' its mighty important t' see its kept sound an' healthy. LEADCLAD fences last several times as long as th' ordinary kind because th' strong steel wire is protected from th' weather by a coatin' that's seven times as heavy, an' four times as thick as th' coatin' on ordinary wire. This protection is a jacket o' pure lead. Drop me a line, an' I'll tell you how t' buy LEADCLAD fence to save you money." Address NEIGHBOR DAVE P.S.—Th' same kind o' lead at The Leadclad Wire Co., that's in a bullet."



LET'S HEAR FROM YOU. We want you to write us your criticisms and suggestions about M. B. F. to help us make it better in every way. It is your paper and the editors are your hired men. The Business Farmer, Mt. Clemens, Mich.

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.)

WANTS ANOTHER LAW

DEAR EDITOR: I suppose you get rather tired of kicking and such but I feel that there is no one else who is so much the farmer's friend and so well able to help us.

I know that we have about 'steen billion too many laws but I am in favor of another. That is one which raises the taxes on unimproved property and decreases it on improved property. I do not see why we should have to pay extra because we make things more valuable while some speculator holds property for years, prevents development and does not have to pay much taxes because it is undeveloped.

We would like to have a new house but we know taxes will double if we build and we can hardly stand both. Why should we have to? I know such a law would throw some idle land back to the State but let us have a law that the State shall sell the idle land in small parcels to the poor people in the city who wish to get back to the soil and cannot because of cost. Allow them to buy it on time with the first payment deferred for say five years providing they do so much improving each year such as building, planting orchard and reforestation, as well as raising crops.

Also have it tax and interest free for the first few years so that the poor man can get a start. In other

out their lights to wait until he or we have gone to sleep. If any stir is made they pull out and go.

Incidentally, our neighbor's granary had the lock torn off the same number of times we saw the car turn in, go beyond the line of his buildings before turning off its lights, and then stop. We see it stop at the neighbor's on the other side and at our own place but if we make a move they are gone to come back when we are sound asleep.

We have appealed for help and have had great promises made but as we continue to see the culprits and nothing of the officers of the law we are apt to grow impatient and say things. They want proof. They expect us to swear that certain parties called, left their card and stated their intentions. I know if they spent one quarter of the time looking after these folks nights that they ought the crooks would have been apprehended long ago.

I think we will have to form vigilance committees and patrol the roads, for if we have to wait to arrest the gang until they call us out of bed to watch them at their work we will have little real help given us from those paid for it.—A Subscriber, Breckenridge, Mich.

—Here is where the burglar alarm would prove a great help in catching the thieves. The silent type we have discussed would "call" the farmer out of bed to "watch them at their work" and give him an opportunity to do more than that if he so desired. The gong type of alarm would awaken the farmer and start the thief away from the place at a rapid rate of speed all at the same time.—Editor.

GETTING BETTER

DEAR EDITOR:—I have been a subscriber to your paper since 1920 and I like the paper O. K. It's getting better every year and read every page.—Adolf E. Zak, Grand Traverse County.

words make it about like homesteading. There are hundreds of poor families now living in the city who would get out on these places and raise a garden, chickens and other things, improve their health and get a home for their old age if they could get started in this way. Michigan would get rid of her idle land and we would all be better off. Then make the man owning unimproved land pay larger taxes and increase them each year that they are idle.—A Home Owner's Wife, Whitehall, Michigan.

THIEVES ARE ACTIVE

DEAR EDITOR:—Some five years ago I wrote you concerning trouble with chicken thieves and other gentry that our neighborhood had been suffering from. Since then the work you have done has been great and every subscriber should write and thank you.

I was annoyed the other day to find an article in our daily paper giving credit to another, which is a worthy enough paper but no such partisan of our property rights as you are. Thinking that perhaps the trouble lay in the silence of those you are working for I am sending in my own personal "Thank you."

For a year or two our losses in this neighborhood were comparatively light but the last eight or ten months they have doubled and quadrupled. Chicken houses are broken into, the windows broken, the locks torn off, or other openings made and the chickens disappear. Grain and beans are taken, small tools are taken, parts of harnesses or wagons disappear, and where houses are far from their neighbors, and their owners go to town, to trade or for an evening's entertainment, the houses are entered and fruit, vegetables, food, and even furniture or valuables disappear.

We never leave our home unoccupied at night but still we have lost chickens, grain and small tools. Our chicken coop has had the windows broken more than once to make entrance easier.

We see the ones who are responsible travelling the roads day and night unmolested. We watch them turn into our neighbor's field and turn

PHEASANTS

DEAR EDITOR:—We read the M. B. F. and like it very much. We were reading about the pheasants and muskrats. Last year the pheasants destroyed about half of our corn crop. What a blessing it would be if they were never put out for the city hunters. I am not the only farmer in this community who lost corn. Some thought it was crows but a few saw the pheasants at it.—Mr. and Mrs. F. J. Stabaugh, Livingston County.

WANTS TO BUILD REWARD FUND

DEAR EDITOR:—I have been a reader of your paper for quite a while and am very pleased with it. The only trouble is that it seems quite a while between issues. But there is as much in it as most of us can digest properly if it does only come once every two weeks. There are several things I have been thinking of writing to you about but I expect space will not permit too much wind at one time.

Long about the fifth of November one of my neighbors came speeding into my yard at about 7:30 in the evening and wanted me to help him catch some thieves who were stealing

HIS LAST DOLLAR

DEAR EDITOR:—My husband said he would send for M. B. F. if it took the last dollar he had. He certainly enjoys the paper so please continue it.—Mrs. Clark Diehl, Mecosta County.

his clover seed. His wife and him had been to town and when they returned early in the evening found three men and a woman carrying his clover seed down stairs in his house and putting it in their car. They had about five sacks or twelve bushels in the car when my neighbor having a high power car, soon overtook them. The thieves then abandoned their car and escaped through a corn field.

We examined the car and found that it was from Wells county, Indiana, about 125 miles away. Officers were called and in a few days one man and the woman were arrested. The man pleaded guilty and got a

sentence of from one to three years. The woman has not had her trial and the other two men are still at large.

Since that night I have been thinking that it would be a good thing if every subscriber to M. B. F. would send one dollar to pay out in rewards in a conservative yet generous way. We could stop some of this stealing and murdering that is going on every night. I would not consider a dollar given like that as being spent. I would consider it invested and it might pay a big dividend before a year passed. Let's hear from the rest of the M. B. F. family.—L. G. Starbuck, St. Joseph County.

HUNTING AND TRESPASS LAW

DEAR EDITOR: With your permission may I ask what class of so-called hunters, or sportsmen if you prefer, is it that denounce and condemn a law that was passed recently to protect the farmers in their very meagre rights on their own property against so-called hunters or sportsmen of all descriptions, who seem to feel they should have a right undisputed to go and trespass and shoot where ever they see fit any and everything their dogs can find and their pumpguns can reach without permission from the owner of the premises. They seem to think that they are curbed in their rights our country owes them.

Is it the rural population so disturbed or is it that class of so-called sports who have nothing else in the world to do but live in their fine



BOOSTING M. B. F.

George Borgula, of Muskegon county, is a farmer with considerable ability as a cartoonist, as the above cartoon indicates. Further, he is a persistent reader of M. B. F. and assures us he boosts the paper whenever he has the chance.

homes or race up and down our highways with their fine automobiles while policemen protect their property? When the hunting season comes they come out to the farm and take all the game while the farmer is busy at work.

What would happen to trespassers or hunters if they came into one of these sportsmen's backyards or onto their lawn shooting squirrels and birds or digging up the yard for various purposes?—M. W. Hyenga, Van Buren County.

CAUGHT TWO THIEVES

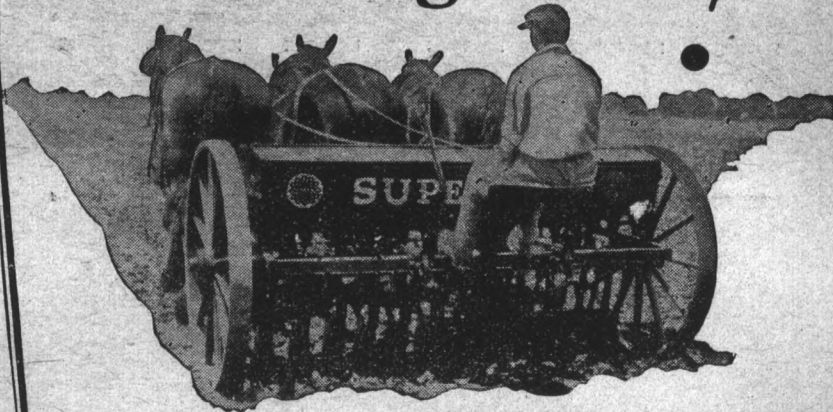
DEAR EDITOR:—Am a subscriber to your paper and know you are interested in all chicken thieves. I caught two that stole nine of my turkeys.

On Sunday night, Nov. 13, I heard a noise among my turkeys. I went out and found that someone was stealing them. I tracked them to their car where they loaded them and could follow their car tracks. Then I swore out a warrant and the sheriff and I went after them. They lived in Flint and their names are Ed Riadell and Wm. Ancel. They owned up to the stealing and wanted to settle for them. As the both had families I settled for \$50 for the turkeys and \$34 costs.—King Blackledge, Clare County.

We have been subscribers for some time and enjoy your paper very much as it is clean, cheerful and interesting and instructive. Wishing you the very best that the New Year can bring to you as we feel you are a real friend to the farmer.—Mrs. W. D. G. Grand Ledge, Mich.

Plant Bigger Profits with this Amazing Drill!

New, Improved
SUPERIOR!
—Quickly Pays
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Greater Yields



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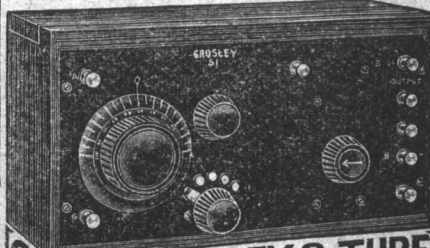
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Today, Kellys are consistently giving two and three times the mileage they did seven or eight years ago, yet they now cost no more than any of the better-known makes.

The explanation is very simple. The public demand for Kellys led to such large production that our manufacturing costs have been constantly lowered, thus making it possible for us to offer you far better tires than the old Kellys, at half the cost.

If you have never used Kelly-Springfield tires, it will pay you to get acquainted with them.

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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."

"Never saw anything work like it did. We
are ordering from our wholesaler in our
next order. It is not necessary to say that
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Sardinia, Ohio.

75c at your druggist; large size (four times
as much) \$2.00. Sent postpaid direct from
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Our Next President

A NON-SECTARIAN SERMON BY

Rev. David F. 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: "Moreover, thou shalt provide out of all the people able men, such as fear God, men of truth, hating unjust gain; and place such over them to be rulers." Exodus 18:21.

FEBRUARY is dignified in being the birth-month of two ex-presidents whose greatness will ever be revered by American hearts, and honored in universal history. But these men are great not only according to the school histories, but as determined by the standards of Another Book. After all, to be truly and satisfyingly great, one's measure must be taken in the realm of grace and goodness. Who failed more ignominiously in wealth, popularity, and material power than the Lowly Galilean? Yet, in these modern days, rulers and statesmen in ever-increasing numbers, seek diligently for His Star. So, when Washington is on his knees in his Valley Forge's and in his prayer room, we get his truest portrait. These high moments and prophetic moods in our first president are what we desire in every president, that our history might be kept honorable in the sight of God and man.

One of Washington's prayers runs as follows: "Almighty God, we make our earnest prayer that Thou wilt incline the hearts of the citizens to cultivate a spirit of subordination and obedience to government, and to en-

of our text. Let us look at these principles. They are a part of the shrewd counsel of an Arab shiek given to his son-in-law, Moses, who was engaged in the shaping of a nation. This priest of the open skies had caught the spirit of democracy, and knew that it could be made safe only in a certain ruling personnel.

"Able men." This statement is simple, but adequate. All can understand it. And just now, when the "favorite sons" are grooming for Coolidge's shoes, it is well to apply this tried and old-fashioned measurement. Is your candidate "able"? Does he have courage and strength of mind? Have his convictions grown out of an earnest study of statecraft and public affairs? Will he live by honest convictions? Or, is his ear to the four winds of popular opinion that he might tack his sails accordingly? This man is unsafe. He cannot qualify as a man of ability. Reject him.

"Such as fear God." We want rulers right at hearts, and openly religious. President Coolidge became an avowed member of the church. This got him confidence. It is yet popularly believed that he possesses that pious, Godly fear that makes for the safety of his conclusions in the management of executive affairs. The fear of God is the beginning of wisdom and enables one to govern oneself. Let us choose a president that has that vital, deep, purifying thing in his heart that has guided him into a life above reproach. One who cannot govern himself cannot govern others.

"Men of truth." But this is an outgrowth of Godly fear. And yet, human nature has such a tendency to slip. To be men of truth is to be scientific. It is an honest desire to know facts and conditions as they are and then to treat them fairly and consistently. What sham and pretension everywhere! Politics, society, and religion are shot through with it. Shun the man of untruthfulness, of partisan bias, and of misrepresentation of facts. Longfellow, another of February's sons, has this to say:

"Were half the power that fills
the world with terror,
Were half the wealth bestowed
on camps and courts,
Given to redeem the human
mind from error,
There were no need of arsenals
and forts."

How pertinent is this principle now in the face of our president's call for a billion dollar increase in navy expenditures! Is this consistent? Is it in harmony with world peace? Will it get us any national glory? Do we need it? Are we willing to shoulder the increased tax-burden? What is the truth in the matter? What would Jesus do with a million dollars, were he here? What was his first-century attitude with political jealousies and warring factions all around him? Might he not today rather use a billion dollars to educate the nations away from misun-



FARMING UNDER DIFFICULTIES

This is a case where the horse power was furnished by man power. Mrs. Fred Hahley, of Barry county, who sent in the picture, writes, "Have no team of my own and could not hire one for love or money, but we are bound to win. Fred Hahley and Ralph Taylor are the team and Jay Ferguson is guiding the cultivator."

derstandings and consequent threats of war? "I am the way, the truth, and the life."

"Hating unjust gain." A most suitable qualification, since public office gives the incumbent such smooth advantages. Don't you think it is time to purify governmental relations at Washington? Then watch the man with itchy palms.

So, this is the ideal. It is rigid as it is high. It damns the idea that one can do things in public life and retain a good name, but dare not do them in his personal relationships. It makes one's character surmount all one's native endowments. The promise was, "If thou shalt do this thing, * * * then thou shalt be able to endure, and all this people also shall go to their place in peace." Truly, religion comes first as state guiding principle. Let us have rulers who abide in the shades of the departed Washington and Lincoln, and profess a devout belief in the Christ of the nations.

Visited by Thieves

(M. B. F. pays a reward of \$50 to the person responsible for arrest and conviction of anyone guilty of stealing poultry from a subscriber, and \$25 reward where other livestock, fruit, grain, or farm implements to the value of \$10 or more are taken. Write us for complete rules governing payments of rewards.)

Offers \$10 Reward.—Dan J. Stadler, of Monroe, offers a reward of \$10 for information leading to the recovery of "Mike," a black and white fox terrier pup, six months old.

Steal Muskrats.—Between four and six hundred muskrats were recently stolen from the farm operated by F. S. Dudney, near East Leroy. Mr. Dudney lives in town and visits his muskrat farm once a week so can not say how long it took the thieves to gather their loot.

In the Right Coop.—From two and a half to five years in Jackson prison was the sentence Judge George W. Sample, of the circuit court, Ann Arbor, gave Earl Shoebridge, of Plymouth, who was found guilty of stealing four geese, eight chickens and three ducks from a Washtenaw county farmer. Judge Sample intends to make the poultry stealing business unpopular in his county.

Take 30 Chickens.—Nat Barling, who lives near Oxford, reports thieves took 30 chickens from his coop one night recently.

Finds Evidence.—Will May, a farmer living not far from Portland, has been missing poultry for several months but has been unable to account for their disappearance. Recently when he went to his coop in the morning he found a large jack-knife near the door and foot prints near the coop which causes him to think his thief is human.

Unable To Locate Thieves.—Chicken thieves entered the hen house on the farm of Barney Curtis, on the County Line road, between Burch Run and Vienna, and carried off 25 fine Rhode Island hens. Officers have not located the thieves.

Between 45 and 50 Taken.—Charles B. Johnson, of Ypsilanti, reports that he lost between 45 and 50 Buff and Plymouth Rocks during the night of January 19. Officers are now working on the case.

HOME MANAGEMENT PROJECTS IN KENT COUNTY

PLANS for home management projects covering Kent county have been announced by Miss Edna W. Smith, home economics specialists at M. S. C., who will be assisted by Miss Agnes Soreson, local demonstration agent. Grand Rapids Cedar Springs and Lowell have been selected as training centers from which women of the several communities will go out to act as instructors.

Among the speakers scheduled to address the Ingham County Farmers' Club, believed to be the oldest active club of its kind in Michigan, is Gov. Fred W. Green. He is to speak at their March meeting.

Calhoun county will hold its eighth annual county fair at Marshall from October 3rd to 6th, this year.

WHY THIS FOUR IS TRUTHFULLY CALLED AMERICA'S *Finest*



No car in its price class is so ROOMY. No car in its price class is so SWIFT. No car in its price class is so STURDY. No car in its price class is so SMART.

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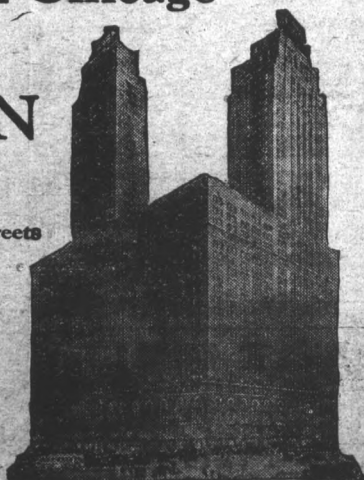
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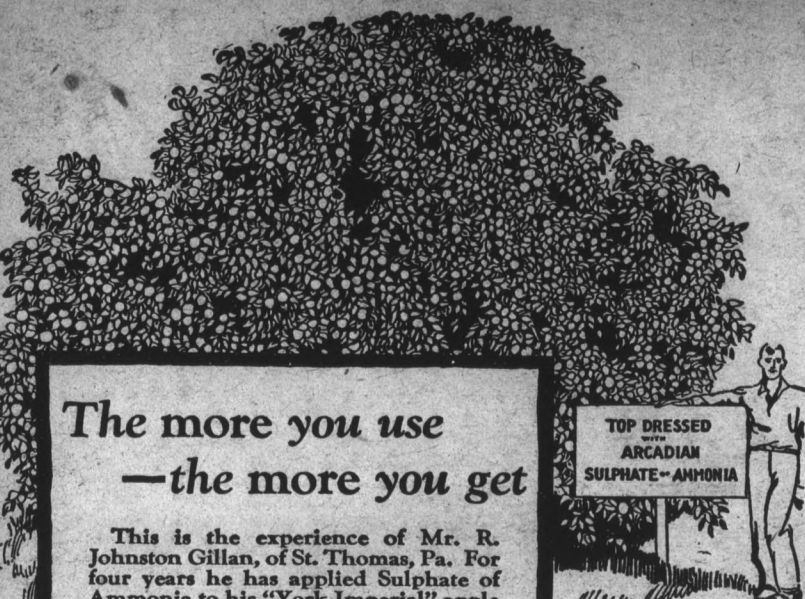
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The more you use —the more you get

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"We have been using Sulphate of Ammonia in our orchard of 'York Imperials' for the past four years, keeping careful tally of the yield of each tree every year. We have put it on at the rate of 3½, 7½, and 10 pounds per tree at a time and while the gains in growth and crop have all been satisfactory, the higher application has given the larger financial return."

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Mail the coupon for free sample and bulletins.

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Drawing from actual photograph shows one of Gillan Brothers' trees which received 7½ lbs. Sulphate of Ammonia each year for 4 years. The condition of the tree tells the story.

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Beat the Corn-Borer!

Kill this fellow before he ruins you and your crop! Government bulletins say: "Utilize as much of the corn crop as possible through the silo since the fermentation kills all the insects."

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New York, December 28th, 1927. The Board of Directors have declared a quarterly dividend of Sixty (60c) Cents a Share on the Common Stock of this Company payable February 15th, 1928, to Common stockholders of record at the close of business February 1st, 1928. Checks to be mailed. Transfer books will not close.

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WHEN WRITING TO ADVERTISERS
MENTION THE BUSINESS FARMER

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.)

INDUSTRY VS. AGRICULTURE

SOME large business concerns could aid agricultural revival by adopting a more helpful attitude toward farmers' cooperative associations. The interests of so-called "industry" and those of agriculture are constantly becoming more interwoven, and it will soon become evident that a lasting prosperity can not exist in this country unless these two great commercial branches get together and cooperate for the benefit of all.



Herbert Nafziger

Here's the story.

A certain fruit co-op has all its buildings located on land belonging to an interurban railway company, and for years this electric line was the co-op's only connection with the steam roads and the outside world. In the course of time paved highways and the advent of motortruck transportation made it possible to transport fruit to various markets by truck. In this way several highly perishable kinds of fruits could be brought to market in better condition and at a considerable saving in freight charges. Lower grades of fruit could also be rushed to nearby markets and disposed of at a profit.

The interurban railway company soon voiced its disapproval of the use of motor trucks and when the co-op's land lease expired the interurban refused to renew the lease unless all of the co-op's produce were shipped by rail.

To say that the co-op's directors were temporarily scared is putting it mildly, for compliance with the railway's demands meant the abandonment of a new and profitable market.

The association's directors finally decided that no court of justice would countenance the brand of coercion which was being attempted, and proceeded to call the railway's bluff by doing business as usual without a lease!

Weeks of watchful waiting brought no reaction, but it gradually became evident that the railway company was undergoing a change of heart. Instead of finding the issue forced upon it the co-op found itself the recipient of improved railway service, real service, service such as it had never dreamed of in the past. The result has been vastly improved relations between the farmer's association and the railway, and, more and better business for both sides.

What became of the lease? No one seems to know. The general opinion seems to be that it was lost in the shuffle.

SAUCE FOR GOOSE IS SAUCE FOR GANDER

THE American Pomological Society in its annual meeting at Louisville, Kentucky, December 6-8, passed resolutions urging the adoption of a tariff on bananas. Bananas are grown in tropical countries with the aid of exceedingly cheap labor and are shipped to this country in huge quantities, duty free, to compete with American grown fruit.

The Pomological Society seems to think if tariffs are good for pig iron they are also good for fruit.

CANE BORER

Can you tell me what ails my red raspberries? The canes fall over and upon investigation I find that they look like they have been cut and become hollow. Some burst open a couple of inches, others in just a small place and soon die. Some have tiny white worms and others tiny black specks. It is always near the root. Is there any

remedy for this trouble?—Mrs. F. K., St. Charles, Mich.

YOUR raspberries are probably infested with the cane borer. This insect tunnels down the inside of the canes and also girdles the tips of the young shoots. Watch the young shoots for wilted tips. If you see any cut them off below the girdle and destroy them. As soon as the crop is harvested cut out the old canes close to the ground and burn them.

A USE FOR PIG WEEDS

WE have always been told that everything is good for something, but we could not help but doubt that statement when we thought of pig weeds. However, a use has been found for even these. They are being used in the fruit orchards of A. J. Rogers, of Beulah, and are considered an asset.

Mr. Rogers, owner of Thrushwood Orchards, says pig weeds are a liability in late spring and summer, and an asset in the fall, winter and early spring. They become an asset as a cover crop in the fall, to retain snow in the orchard in the winter, as a protection for the roots of his cherry trees, and to retard bud growth in the spring until after danger from frost has passed.

Under Mr. Rogers' cultural practices, pig weeds make a vigorous growth, attaining two feet or more

PIE FROM 35 YEAR OLD APPLES

MRS. THOMAS RILEY, of Brown City, dried some apples back in the year of 1892, put them in a can and forgot about them. Recently she discovered the can and the apples appeared to be in good condition so she decided to put them into a pie. Folks who were invited to share in it pronounced the pie delicious.

before they are killed by frost. Since 1921 Mr. Rogers has been fertilizing his cherry trees with nitrogenous fertilizers and this has helped the weed growth as well as the trees.

Clean cultivation is practiced in the orchards until late in August, when the weeds are permitted to grow. Cover crops are used on the theory that they tend to retard the growth of fruit trees, thereby hardening the bark and bud in preparation for the winter.

Since Mr. Rogers began using commercial fertilizers and pig weeds as a cover crop, the yields of his cherry orchard have been increased to 10 tons an acre.

STATE PROGRAM FOR CORN BORER CLEAN-UP IN 1928

(Continued from page 3)

in that it reduced the rate of increase of the pest. Its spread cannot be stopped as the corn borer moths are able to fly at least 20 miles. Their numbers can be kept down however, so that heavy infestation and commercial loss to the corn crop can be avoided. The campaign of 1927 demonstrated this fact beyond doubt.

The clean-up is the responsibility of farmers living within the area infested by the corn borer. It is their corn crop and their land values which are to be protected. The job was well done in 1927 and its continuance this year will deal the corn borer a deadly blow and avoid the repetition of severe losses which have been suffered by the farmers of Kent and Essex counties of Ontario.

In drawing up the regulations for 1928, Commissioner Powell points out that they were defined with the idea of practicability in mind and that nobody is asked to do anything which is not reasonable. A better understanding of what is required exists this year and Department of Agriculture officials feel that with an early start, the farmers of the corn borer area of Michigan will not flinch in their task of protecting not only the corn crop in this state, but also in the Corn Belt proper.

FARM MECHANICS

HONEY IN RADIATOR

I am having considerable trouble with alcohol as a non-freezing solution in my radiator. I have heard that honey is good. What do you think about it. What can you recommend?—W. H., Grand Traverse County.

ABOUT two years ago several members of the Agricultural Engineering staff tried out honey as a non-freezing solution in their car radiators. Tests were also conducted in the laboratory on stationary engines to determine the effects on operation due to overheating of this honey solution. We are convinced as a result of these tests that considerable grief may result with the use of a honey solution. Some have used it quite successfully while others report considerable repair bills as a result of the solution seeping through gaskets and seizing the piston in the cylinder, and seizing the piston in the cylinder.

We find also that the ordinary preparation of honey solution which uses some alcohol will produce an insoluble scum when at the boiling point which frequently plugs the overflow pipe of the radiator causing steam pressures to be built up and resultant damage to the hose connections.

I have used alcohol for a number of years and have had no difficulty with it, particularly where a pump is used to circulate the cooling liquid. This will keep the water from attaining the boiling point, consequently there will be less loss from evaporation.—S. C. Sauve, Assistant Professor, M. S. C.

STORING BATTERY

Can a storage battery be stored dry during the winter? If so please tell me how it can be done.—B. S., Saginaw County.

STORAGE batteries are taken care of during the winter by dry storage where the battery is fully charged before being taken to pieces. The cover is then steamed off and the elements removed, the separator removed, the acid taken off and the sediment washed out of the bottom of the cells. The elements are then dried and put into storage. In the spring when the battery is required again it is re-assembled with new separators, the required amount of acid, and is fully charged. This cannot be done satisfactorily at home and should never be attempted.

SIZE OF PULLEYS

Please tell me how to figure the size of pulleys. I have a gasoline engine that runs 500 r. p. m. and has a six inch pulley belt. I want to put in a line shaft and run several tools.—Subscriber, Mich.

TO find the diameter of the driven pulley, multiply the diameter of the drive pulley by the r. p. m. of the drive pulley, and divide by the r. p. m. of the driven pulley. If you wish to run your line shaft at 300 r. p. m., which is a common speed, the size of the line shaft pulley would be six times 500 divided by 300, which is 10; therefore a 10-inch pulley.

If you wish to find how fast the driven shaft is running, multiply the diameter of the drive pulley by the r. p. m. of the drive pulley, and divide by the diameter of the driven pulley. For instance, if you wish to use a 12-inch pulley on the line shaft, the line shaft would run 6 times 500 divided by 12, or 250 r. p. m.

DON'T DELAY PAINTING TOO LONG

DO not postpone painting too long. If wood has begun to rot or iron has begun to rust, this will continue after the paint has been applied. Outside painting can be done whenever the surfaces are dry and the weather is not damp, frosty or freezing. Best results are obtained when the temperature is between 60 and 80 degrees Fahrenheit.

Motor Car Bodies

Covered with Celluloid

Today, paint is not used in finishing motor car bodies. Instead, they are "Ducoed" or lacquered.—When a car body is lacquered, it is actually covered with coatings of colored celluloid, sprayed on.—The use of lacquer has resulted in a far greater variety of colors and color combinations in finishing motor car bodies. It has another great advantage, that of retaining its luster much longer than paint.—Although lacquer has greatly simplified body painting, as many as 15 major operations are required before the lacquering of a Fisher Body is completed.



Method of Finishing a Fisher Body

After a Fisher Body receives four coats of "rough stuff" it is ready for a Japan ground color. It then receives four to six coats of lacquer. Then there are, of course, five drying periods, one between each coat of lacquer. It is then carefully rubbed, once after the "rough stuff" has been applied and again—this time with oil and fine sandpaper—after the lacquer has been applied. Finally, it is polished; and then, if the paint design calls for striping, it is striped by highly skilled men who work free-hand and who specialize in this delicate art.



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SATURDAY, FEBRUARY 4, 1928

Edited and Published by
THE RURAL PUBLISHING COMPANY, Inc.
George M. Slocum, President
MT. CLEMENS, MICHIGAN
DETROIT OFFICE—2-144 General Motors Buildings
LANSING OFFICE—232 S. Capitol Ave.
Represented in New York, Chicago, St. Louis and Minneapolis by
The Stockman-Business Farmer Trio
Member of Agricultural Publishers Association
Member of Audit Bureau of Circulation

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

*"The Farm Paper of Service"***FIXING UP THE YARD**

THERE are not many of us who do not notice and admire attractive grounds around a house either in the city or the country. But there are few of us who can "fix up" our front yard so it will look just right, because we haven't the training or experience along that line. We usually know our weakness and for that reason we just set out a few bushes here and there, sort of hit and miss with the trees, and let it go at that. We would like to make it a first class job but we lack the "know how." In an article on page 4, Mr. Russell McKee, who is an expert landscape gardener of ten years experience, gives out some helpful pointers on how to be your own landscape gardener and make your front yard a pretty picture. Further, he has promised to answer any questions you want to ask on this subject. Of course he doesn't pretend to know it all, but he was born on a farm, knows the problems of the farmer, and we believe is able to answer most of your questions. Address him in care of M. B. F.

HIS ALARM WORKED

HUGH BRUEKER, a Tuscola county farmer, believes a burglar alarm connected to the chicken coop is a profitable investment.

On the night of January first he was awakened by the alarm bell ringing in his bedroom. As it was connected with the door and windows of his chicken coop he knew someone was trying to gain entrance so he quietly arose and reached for his loaded shot gun which he kept nearby. Then he turned on the lights in the coop, which were connected with his house lighting system. As the light flooded the coop two startled thieves ran out and headed for a truck parked a short distance away. In order to increase their speed, if such a thing was possible, Mr. Brueker fired a shot into the air. The shot accomplished its purpose and the thieves tumbled into their truck which they got in motion and headed away from there in record time.

As Mr. Brueker keeps more than 150 chickens he probably would have lost over a hundred dollars that night if it had not been for his burglar alarm. And the alarm cost him only a few dollars, plus the time it took him to install it.

EXTENSION WORK AND FARM BUREAU

SPEAKING before the ninth annual American Farm Bureau convention in Chicago on December 2nd Mrs. Edith M. Wagar, of Carleton, discussed the agricultural extension policy and its relationship to the farmer, particularly the farm bureau member. It was her contention that agricultural colleges should give more attention and study to the farm organization question; why some fail and others succeed, and how to build them along successful lines. Also she stated that she believed that farmers should sit

in at hearings and help shape extension programs of real worth to the rural communities.

Her ideas are fine and we endorse them, but she seemed to be thinking only of the farmer who is a member of the farm bureau. To us her talk indicated that she believed the organization work at the college should be mostly for the benefit of the farm bureau and it should be the farm bureau member who took part in shaping the extension program.

We entertain very high regards for Mrs. Wagar, we know she is an outstanding, thinking farm woman, but we believe she has a wrong idea as to who is to benefit from the extension work. The extension work is for the good of all farmers, not just the members of any certain organization, and it must be always kept that way.

FARM EQUIPMENT WEEK

THE week of February 13th has been set aside as Better Farm Equipment Week to remind farmers that they should be checking over their machinery before the spring rush. It is several weeks between the week of February 13th and the time spring work begins in earnest, but if there are any parts broken or badly worn and your dealer must send to the factory for them it is none too early to find out about it and get your order on the way. Like Christmas shopping, most of us put off such things until the last minute and then have a time getting what we want because there is such a rush of business. Many times the delay costs us several dollars through time lost.

Also it is a good idea to get an extra supply of those parts that are most easily broken so that you will be prepared in case the unexpected happens. It will cost a few dollars now but may save many dollars during the busy season.

FOUR-CENT GAS TAX IDEA GAINING

REPORTS from various parts of the State show an increasing interest in the idea of raising the gasoline tax to four cents, issuing permanent license plates good for the life of the car and eliminating the weight tax on pleasure cars. This pleases us considerably.

THE BUSINESS FARMER was an enthusiastic backer of the gas tax long before it became popular in Michigan and was the first publication in this State to advocate it being increased and the annual scramble for license plates done away with. If you have copies of M. B. F. as far back as January, 1926, you will find endorsements of it on the editorial page in two issues of that month.

LUCKY LOSS

A POULTRYMAN living near Holland, Ottawa county, discovered his chicken coop had been entered and sixty pullets were missing. Looking about for clues he found a roll of bills containing \$300 which the thieves had lost in his coop. He didn't feel so bad over "losing" the pullets at \$5 apiece.

MANY INTERESTED IN FARM

A MAN living in the central part of Michigan owns a farm which he recently wanted to rent. He ran a classified advertisement for one day in a daily newspaper circulating in that section and received 126 replies, most of them from folks who had left the farm and gone to the city. They wanted to get back to the land again. After giving it a trial they had found that the high cost of living and uncertain employment took most of the rosiness out of life in the city.

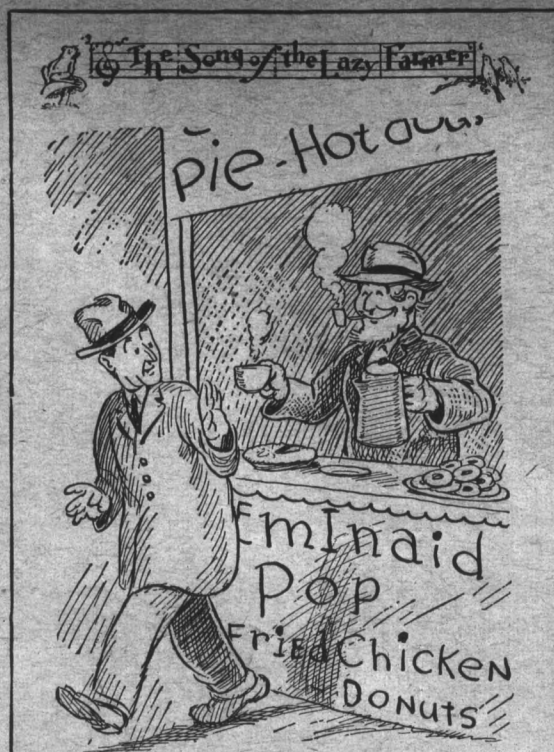
NOT FOR SALE

COL. CHARLES A. LINDBERGH has been offered many fine positions with a salary at any figure he might name, but to every offer of this nature he replies, "I don't want any more money than I am worth. I am not worth much, except my name, and I won't sell that."

No wonder America is very proud of this young man and pleased to have other nations consider him a true representative of this country. Give us more like him.

WE NEED HIM AT M. S. C.

RUMORS have it that Prof. O. E. Reed, head of the dairy department at Michigan State College, may succeed Dr. C. W. Larsen as chief of the bureau of dairying in the U. S. Department of Agriculture. Prof. Reed is an outstanding man, well qualified to fill the position, but we hope he is not seriously considering it because Michigan dairymen need him.



MIRANDY, she got sick last week, she got a cold and couldn't speak, and while I didn't kick at that, the trouble is, while she is flat upon her back, laid up in bed, I have to run the stand instead and bake the cookies and the pies, my cookin'd never take a prize. The pie crust that I make is tough, my customers soon git enough, they never pass their plate again, they take a bite or two, and then they turn and beat it for the door and never do come back no more. I cannot seem to sell my eats, there ain't much cash in my receipts, the profits that we used to make are ruined by my heavy cake.

The folks go by and pass me up, they never stop to dine or sup, some stop to ask if wife is well, but they don't stay to rest a spell and buy fried chicken off'n me. They look suspiciously, by gee, at my doughnuts and like as not, they sniff about my coffee pot but if I pour them out a cup they turn and start their motor up and wave their hand and off they go, so I ain't makin' any dough. The secret of a man's success lies mostly with his wife I guess, when she's laid up it ain't no joke, first thing he knows he's almost broke. One thing I know, Mirandy Jane, when she is on her feet again, will be used mighty nice by me, she's worth too much to lose, by gee!

PETER PLOW'S PHILOSOPHY

I was readin' in the paper 'bout a hen in England that they claim lays two eggs at a time an average of four days a week and a couple of times has laid three. They say the reason is that she was affected with sunstroke when she was 'bout a month old. Guess I'll keep our baby chicks out doors all summer, and then next fall I'll advertise sunstroked pullets at a fancy price.

One thing I like 'bout young Lindbergh is that in spite of all the medals and honors showered on him for bein' the world's great aviator he keeps his feet on level ground and doesn't get his head above the clouds. He travels high but there's nothing high and mighty 'bout him.

T'other day I asked a neighbor to tell me the hardest riddle he knew. He said he didn't like to talk about his wife around home for fear she might hear him.

Gosh, another week gone by and nobody tried to fly to Europe.

And automobiles are the same price they was last week.

What's wrong?

Ever hear this one? The little girl seemed to be thinkin' real serious about somethin'. Her ma says, "What you thinkin' about, honey?"

"What is that bunch in the front of Mr. Jones' throat?" she asked.

"Why that's his Adams apple," said her ma. "Oh," she says, "now I know why I saw Mr. Jones sprayin' his throat the other day. He was afraid the apple might get wormy."

COMING EVENTS

Feb. 6-11.—Short Course, Fruit Growers, M. S. C., East Lansing Mich.

Feb. 6-11.—Short Course, Market Gardeners, M. S. C., East Lansing, 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.)

AMERICAN INVESTOR AND TRADER

Recently I received a letter and a sort of an advertising scheme, as we understand it. Seeing I don't know the meaning of it I am asking friend BUSINESS FARMER. The name of the concern is "The American Investor and Trader, 80 Wall Street, New York, N. Y."

As I am a constant reader of M. B. F. I want to tell you that I think it is the best paper any farmer can read. The only fault I find with it is that it doesn't come once a week.—H. E. F., Benzie County.

THE American Investor and Trader is successor to the Investor's Guide, according to the National Better Business Bureau, and has been operating with a principal office at Jersey City, although maintaining a mailing address in New York City.

While operating as the Investor's Guide and for some time while it was operating as the American Investor and Trader it is claimed that the man behind the outfit was Nathaniel Calvin who operated under the name of Wallace Banks. The police department of Jersey City invited him to "beat it," but he secured an injunction restraining them from interfering with him. That action is pending.

We understand that recently the concern has changed hands and is now boosting the stocks in which Jules Burns has a financial interest.

"EYE SPECIALISTS" LEAVE TOWN

TWO so-called "eye specialists" recently called on a widow in Fowlerville and sold her \$200 worth of glasses and treatments. Then they insisted that she pay them in cash at once. She advised that she did not have the money in the house but would get it from the bank. When she asked for such a large sum of money the cashier inquired into the matter and when she explained how she was going to use it he became suspicious. He suggested paying them with a bank certificate instead of cash. When the men learned they were not going to get cash they hurriedly left town. The State Police is now working on the case.

"ICONOCLAST" EDITOR IN "DUTCH" WITH AUTHORITIES

THE "Wall Street Iconoclast," which gave its subscribers advance tips on the stocks to buy to clean up a fortune, no longer exists and its editor, George Graham Rice, has been indicted on charges of using the mails to defraud. Rice, who is also known as Jacob S. Herzig, is an ex-convict and a stock swindler, authorities declare. Two other men were also found guilty with Rice. They are Walter H. Weed, nationally known mining engineer, and Walter K. Yorston, of Boise, Idaho.

The three are said to have been "ballooning" Idaho copper stock. Rice carried on a publicity campaign through the columns of the "Iconoclast," urging folks to buy at present levels. According to the authorities the three men have options on

1,000,000 shares of stock at 10 and 12 cents and they were selling them for as high as \$6.25. Rice is said to have placed the stock on the Boston curb exchange at 56 cents. Between March, 1925, and March, 1926, the stock went up to \$6.25. Assistant United States Attorney Peck charged that this was done by "ballooning" the stock to readers of Rice's paper.

If you are interested in buying stock do not take the advice offered by a "tipster sheet" but get your information from a source that you know is reliable. Know the stock you are considering buying, know its market, and be sure you are dealing with an established broker.

RELEASE ONE "EYE DOCTOR"

BECAUSE they could not get evidence that proved he had operated in this state, Eaton county officials released Otto Swartz, one of the alleged fake eye doctors they recently brought back from Illinois. Swartz's companion, Harry Klein, who is said to have been identified as "Dr. Harper" who victimized folks in Ionia and Eaton counties, is being held. His bail has been reduced from \$10,000 to \$5,000, but it has not been furnished.

HOLLAND MAN HELD ON FRAUD CHARGE

GARRIT IDEMA, 24 years old, of Holland, was recently arrested and charged with using the mails to defraud housewives, laborers and other residents of Muskegon, Detroit and Chicago, of amounts ranging from \$3 to \$5, according to reports. He waived examination December 19th before U. S. Commissioner E. C. Farmer and was bound over to federal district court. He was taken to the Kent county jail, it is said, in default of \$2,000 bail.

WOODS PUT ON PROBATION

GEORGE W. WOODS, former Detroit and Ann Arbor real estate dealer, who was mentioned in our last issue as being guilty of selling securities not sanctioned by the Michigan Securities Commission, was placed on two years probation after he agreed to refund \$14,200 to four persons he is accused of defrauding.

MODERN ART ACADEMY

HAVE you ever heard of the Modern Art Academy, of Detroit and Chicago? The better business bureaus of Detroit and Chicago have been asked to locate the "Academy" but they have not been able to do so. Apparently it exists only in myth.

LIVE AND LEARN

We think the M. B. F. just fine and would not be without it. We took a subscription for seven years so it will be coming at least for five years yet. We admire the way you go after the "frauds." I have bit on several of those things myself included in the picture agent. What a fine smooth-tongued fellow he was, but the one that delivered the picture was an altogether different person and what pictures! We didn't accept them, consequently a scene. This is altogether too long for a first attempt so with the best wishes to your staff of workers, I am, Mrs. R. D., Colling, Michigan.

MOST of us get stung a few times before we really get our eyes opened. If a person is not familiar with these frauds it isn't such a disgrace to fall once but it falling after being warned that wins the booby prize. It is our duty to post our readers about the various schemes before they have a chance to fall and so far we believe we have been fairly successful.

I received my money, \$20.00 from the garment company from New York. Many thanks for helping me get it. I do not think I would have gotten it if you had not written. Many thanks. We enjoy your farm paper very much.—Mrs. W. S., Allegan County.

Are These Good Bonds?

—Read This Matter-of-fact Analysis and Decide for Yourself

BONDS which we offer are secured by closed first mortgages on income-earning buildings and the land on which they are erected.

A first mortgage is a first lien on the property—and is also a first lien on the earnings from the property.

"Closed" means no more bonds than we offer can be issued under the first mortgage.

There are no prior liens on any building upon which we issue bonds—these bonds are the first obligation.

Buildings usually are office, store, hotel, apartment and garage buildings.

Bond issues rarely amount to more than 60% of the actual value of the property.

Bonds are retired serially, and the security naturally increases in proportion as the obligation is reduced—another factor of safety.

This corporation acts as a trustee and gives individual attention and service to each bond issue. The result is that interest and principal payments have always been made exactly on days due.

Mail the coupon below for our booklet
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The New 1928
Walsh
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\$7.50 a
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30 Days
Free Trial



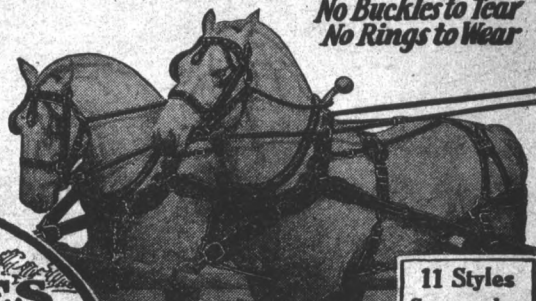
How to Make Them

The new ways of hitching from 4 to 6 horses, the manner of bucking back, the arrangement of 2-line drives, etc., are shown by very comprehensive charts and explanatory notes now being sent out free of charge by the James M. Walsh Company, of Milwaukee, Wisconsin, makers of the famous No-Buckle Harness. It will pay any farmer who wishes to learn how to economize on horse and man power, to send to the above company for the instructions, which will be mailed without cost or obligation.

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The World's Strongest, Handiest,
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Some as low
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A new kind of harness of amazing strength. Will outwear two sets of buckle harness. Made without buckles to tear straps or rings to wear straps, and with Walsh metal-protected bearings, giving triple strength and life-lasting wear at over 275 points where ordinary harness wears out. Improved hames; a harness easy to adjust; easy to put on or take off. Try 30 days at my risk. Ship back at my expense if not the best harness you ever saw at any price. Post yourself at my risk. I'll show you how to put an end to harness bills. Write for catalog. 12-28

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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.

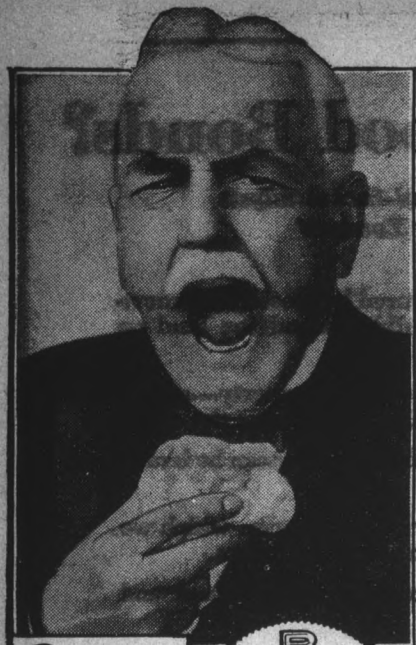
In every case we will do our best to make a satisfactory settlement or force action, for which no charge for our services will ever be made, providing:

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 January 26, 1928
Total Number Claims Filed.....2,118
Amount Involved.....\$39,282.01
Total Number Claims Settled.....2,597
Amount Secured.....\$30,746.41



FOR COLDS BAYER ASPIRIN

To break a cold harmlessly and in a hurry try a Bayer Aspirin tablet. And for headache. The action of Aspirin is very efficient, too, in cases of neuralgia, neuritis, even rheumatism and lumbago! And there's no after effect; doctors give Aspirin to children—often infants. Whenever there's pain, think of Aspirin. The genuine Bayer Aspirin has Bayer on the box and on every tablet. All druggists, with proven directions.

Physicians prescribe Bayer Aspirin; it does NOT affect the heart

Aspirin is the trade mark of Bayer Manufacture of Monoaceticacidester of Salicylicacid

Best Way to Loosen Stubborn Cough

This home-made remedy is a wonder for quick results. Easily and cheaply made.

Here is a home-made syrup which millions of people have found to be the most dependable means of breaking up stubborn coughs. It is cheap and simple, but very prompt in action. Under its healing, soothing influence, chest soreness goes, phlegm loosens, breathing becomes easier, tickling in throat stops and you get a good night's restful sleep. The usual throat and chest colds are conquered by it in 24 hours or less. Nothing better for bronchitis, hoarseness, throat tickle, bronchial asthma, or winter coughs.

To make this splendid cough syrup, pour 2½ ounces of Pinex into a pint bottle and fill the bottle with plain granulated sugar syrup and shake thoroughly. If you prefer, use clarified honey, instead of sugar syrup. Either way, you get a full pint—a family supply—of much better cough syrup than you could buy ready-made for three times the money. Keeps perfectly and children love it.

Pinex is a special and highly concentrated compound of genuine Norway pine extract and palatable gualcol, known the world over for its prompt healing effect upon the membranes.

To avoid disappointment, ask your druggist for "2½ ounces of Pinex" with directions. Guaranteed to give absolute satisfaction or money promptly refunded. The Pinex Co., Ft. Wayne, Ind.

PINEX

for Coughs

please—

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

The Business Farmer
Mt. Clemens Mich.

CATAPULT

Another Tale of the Homestead Country

By NORRELL GREGORY

MANY of our readers will recall "Homestead Country," another story by Mr. Gregory, which appeared in our columns several months ago. It was a very interesting tale of the Muir family and Doug Summers, an orphan who lived with them and was "sweet" on Mary Muir. They moved from Iowa to Colorado and began farming in the high country where snow is likely to catch the wheat crop and where range on the forest reserve is now available for stock. They have troubles—plenty of them, just like all farmers—but they do not give up easy. If they can have one good year they feel it will just about put them on their feet. But there will not be enough so Doug and Mary can get married. Doug, being an expert rider, feels that he can pick up some extra money by riding bad horses. Catapult is one of the worst horses that can be found in that part of the country and Doug is anxious to ride him because of the \$1,000 prize money he is entitled to if he succeeds. The Muirs oppose him in this. Does he ride him? Well—you find that out when you read the story.—Editor.

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. The bottom fairly dropped out of the cattle market, then, by way of emphasis, dropped some more.

The third winter was a terror. Snow blocked everything and held on until June. It was a sickly looking bunch that Terry, son of the family, and Doug Summers, who had come west and made his home with them, shoved out on the range that June. Decimated in numbers; thin, ragged and spiritless.

Mort Ramsdale, a weathered cow puncher who had stayed over from the former management and had been trained because of his knowledge of the practices of the cow country, cocked an appraising eye at the cattle as they filed past him thru the range gate onto the government grazing ground. Then he shook his head doubtfully.

Doug caught the look as well as the head shake.

"Now what is the matter with you," he wanted to know. "What are you wagging your head at and looking so sorrowful about?"

"It's that bunch of cattle there," predicted Mort, as he watched a thin cow uproot a giant larkspur and devour it greedily. "They are so plumb starved out they'll eat anything."

"That's nothing to cry about, it is?" asked Doug, throwing a long leg over the wide swell of his bucking saddle and digging down for a sack of tobacco. "More they eat, the fatter they get, don't they?"

"Not on what that cow is eatin'," said Mort. "That's poison. There'll be heavy losses this spring if I don't miss my guess."

"We'll hope for the best, Mort," said Terry, optimistically. "At the price cattle have been it won't hurt much to lose one. There's that satisfaction in having low prices, anyway."

"It'll hurt just the same," announced Mort. "You wait and see if it don't. How many did you tally?"

"I made it three hundred and two, all told," said Terry. "What did you make it?"

"Three hundred, even," said Mort. "If we wasn't so backward with our spring work, there ort to be a rider with them all the time to keep 'em shoved back from the worst poison patches. Pay you to hire a rider specially to do it."

Terry shook his head. "Can't afford it," he said. "They've made it before, guess they'll make it this time." He turned his eyes down the trail up which they had come, and held his head in the attitude of listening.

Mort looked, too. "I heard that the Stuttgart outfit was running in a big bunch of stuff this spring," he remarked. "I reckon that these are the ones," he added, as a point rider came into view. Back of him sounded a confused bellowing, apparently from a large herd, and dust clouds arose and swirled thru the air.

"Stuttgart?" Terry looked at Mort questioningly. "The same guy that owns the Bar Slash Bar?"

Mort nodded without averting his look. "The same guy," he said. "He has a big ranch down in the Panhandle, and whenever the range runs short there, he ships a bunch up here. It's his outfit," he announced. "That's Spence Lossing, his foreman ridin' point. God pity these white-faces when that bunch hits the range!"

"Why?" Terry wanted to know. "They can lick their weight in wildcats," Mort informed him. "They'll crowd your cattle plumb off the range. At least plumb off the best part of it. Ain't that Kane the ranger, back of Lossing?"

Doug snapped his cigarette against the gate post and straightened in his saddle. "That's him," he said. "Come along to tally, I reckon. Might just as well stay and see how many they run in, hadn't we?"

"Yes," said Terry, "I want to see that bunch."

Then Lossing rode up and nodded to the men. Cattle began to appear and stream past into the range. Many of them were

long horned, wiry wicked looking steers, apparently all long three's, great rangy fellows, nimble footed as deer and vicious as wolves. The majority, however, were white faces, very like the cattle the boys had just put on range.

Ranger Lew Kane took his stand and tallied. It seemed to Terry there was no end to the stream of cattle that pounded in. Many wore vented brands, but the majority the plain bar, slash, bar (similar to a "Z" backwards) on their right sides.

When the last gaunt steer had been shoved in by the drag, Kane lifted his eyes.

"Twenty-five hundred," he said, looking at Lossing. "Correct?"

"Near enough," replied Lossing. "We had a few over that, but we lost some on the drive. Put it down twenty-five hundred even."

"Hello," said one of the drag riders, drawing up before Doug. "Ain't you the guy that made such a game ride on Bad Medicine over at the fair last fall?"

"Game or otherwise," Doug told him, "I'm the guy."

The fellow put out his hand.

"Shake," he said. "That was ridin', if you ask me. Here," he turned to the puncher who had ridden drag with him. "Is a guy from the Panhandle that can set the most of them. Messer is his name; Chal Messer."

Doug shook hands with the fellow and told him his name. A tall, flashy, black-haired fellow he was, with a ready smile and gleaming white teeth, accented by darkness of his skin.

"Always glad to meet a rider," drawled Messer, in soft southern accent. "Mebbe we'll tangle some this fall."

The foreman, Lew Kane, edged in. "We're establishing our camp up at Stuttgart's summer house," he said. "We always have a bunch of brones for you boys. Ride up any time, both of you, all of you," he added, including Mort. "Chal and I will be up there steady from now on."

"Much obliged," said Doug. Messer leaned over and whispered in his ear and Doug laughed loudly with him. "We'll be there," he promised.

"Boys," said Mort gravely, as they turned homeward, "you want to steer clear of that bunch."

"What's wrong with them?" Doug wanted to know. "Seem mighty agreeable fellows to me. And I'll bet that Messer can ride the worst of them straight up. They don't look like crooks to me."

"They're not crooks," said Mort, "that is, as far as I know. And they're not angels, either. But when they get a few quarts of Forty Rod under their belts, as they often do, they're a rearin', t'arin' outfit. Have some high old times up there sometimes. Specially after the Texas bunch comes in for the summer."

"The Texas bunch?" questioned Doug. "Stuttgart's got some relations that come up here every summer from down in that country," explained Mort. "He has got a big summer camp up the line a ways and they stay all summer and hunt and fish and other things. They'll be in before long," he added. "Better stay shy of them," he admonished again.



Hobo sprang like a streak of light.

It was noon when they got back to the house.

"Wash up," Mary, Terry's sister, told them. "Dinner's all ready."

"And we're all ready for it," Doug grinned. "Been filling my front teeth so's I could get them sharp enough to bite a hunk out of one of them biscuits of yours. Reckon I'll have any luck?"

"Dry up," said Mary. "Can't you find something new to joke about?"

"I'm not joking," Doug assured her. "If breaking off a fellow's teeth on dough-balls is a joke, why somebody tell me."

"Stuttgart ran in over two thousand head of cattle on the range this morning," Terry told his father. "Mort thinks that they will crowd our cattle out."

"What can we do about it?" asked Mr. Muir, of Mort.

"Not a thing," said Mort. "It's government range, you know. But, the way things look to me, I'd shore put out a whale of a grain crop. Can't figure much on the cattle this year."

"But we've only got a hundred acres for grain," said Mr. Muir. "How can we put out more?"

"Have to break out some new land," said Mort. "There's a couple of hundred acres up there on the homestead that can be put out into grain if it is cleared."

"With sage brush and buck brush on it as high as a horse's back," frowned Mr. Muir. "It took us almost a week last year to clear and break out an acre for potatoes. Can't see how we can put in much new land this spring, late as it is. Especially that kind of land," he added.

"Don't figure very strong on the cattle," said Mort again. "Poison will be bad this year. One year up here it almost wiped the range clean."

"If the cattle fail us this year," said Mr. Muir, heavily, "it will about wind us up here, I'm afraid. Then it will be back to Iowa, looks like." He smiled faintly at his wife.

"They've got roses blooming back there now," said Mary suddenly, a note of homesickness in her voice.

"And new peas," said Mrs. Muir.

"And strawberries," said Terry.

"And mortgages," grinned Doug.

"How about here?" flashed Mary.

"Here, here," protested Mort, grinning a little. "You folks cut this out. First thing I know you'll be pullin' out and leavin' me. I couldn't stand that."

"Don't hold your breath till we go," said Doug defiantly. "We're not licked yet. Terry, if we could find a gang plow, we'd hook that old engine to it and turn that two hundred acres of sage brush down about as quick as we cleared that potato patch last year."

"I know where there's a ten-bottom plow," said Mort. "Big as a house. But it's a one-way plow, and you can't throw dirt uphill here."

"Then we'll plow one way and pull back and plow thru agin," said Doug, setting his jaw. "Where is that plow?"

"Over by Oak creek," said Mort. "They got it to break out that sod, but they couldn't get a tractor big enough to pull it. You can buy it cheap."

"The old Wild Cat will pull it," said Doug. "Let's drive over and see it, Terry."

"You go," said Terry. "There's so much work to do around here. Mort and I will try to get things started. You won't need me along."

"Lonesome riding all the way alone," protested Doug.

Mary looked at him oddly. "If it's just company you want," she said, "what's the matter with me?"

Doug grinned sheepishly.

"Get on your togs," he said. "We'll have to step out if we get back before night."

It had been pretty generally understood that Mary and Doug would get married some time. The first year in the mountains, Mrs. Muir protested that they were too young, and the next one everything had gone so perversely wrong that it was out of the question, and this year things looked little better. Doug had chafed not a little at first, but of late he had said little. And so when they set out on the drive to examine the plow, it was not surprising that the conversation was limited at first.

"What are you thinking about?" asked Mary at last, a note of exasperation in her voice.

"Well," said Doug, staring straight ahead, "I was just wondering whether we would ever get in shape to build that house we've been talking about for two years off and on."

"I wonder!" she said, equivocally. "Now what he thunder do you mean by that?" demanded Doug. "What I was thinking about," he went on quickly, "was the fair this fall. There's three hundred up for the best rider over here, and I know I can make it. Then if I could cop at Cheyenne, that would mean a thousand. And then there's the big rodeo at Chicago—there's real money there. It's about the only way out so far as I can see," he finished.

Mary jerked away from him so abruptly that he almost sent the old Metz off the grade.

"No, sir," she said, emphatically. "You'll not do it!"

"I'd like to know why?" said Doug, peevishly. "I'd like to know why you've always been against my riding. Shucks, a bad bronc or two ain't going to hurt anybody."

"It didn't hurt Tex McDonald last fall when that killer fell on him and ran the saddle horn clear thru his chest, did it?"

TOPS THEM ALL

DEAR EDITOR:—I have been taking the Business Farmer for only a few months but I think it is such a wonderful paper that I can hardly wait for the next issue. I take other farm papers but yours tops them all. It is service that we all need and that is what I find in your paper. Yours for continued success.—James H. Rosark, Livingston County.

she asked scornfully. Then, in a milder tone, "Doug, I can't bear to think of that happening to you."

"That was an accident," he argued angrily. "It don't happen one time in a thousand. Never to a rider that knows his stuff."

"I know better," Mary said. "Mort told me that there wasn't a single bad horse rider around here that wasn't crippled in some way or other. And he said that half of them either got killed or maimed for life. I won't stand for it, Doug."

"Can't you see," he argued passionately, "that it's the only way I've got to get some money ahead? Maybe, by the time we're both gray-headed and wrinkled and hump-backed we can get a couple or three thousand together. But I can do it in this way in one summer and not take but mighty little time. It's dead easy money. I know that with a little more practice I can make the best of them set up and make the ride of their lives." He was pleading now.

"No," said Mary, her lips set very straight.

"I'm twenty-three now, said Doug, "and you're twenty. We'll be getting old the first thing we know, and if we can't live the best part of our lives together, what's the use of living any of it. I tell you, Mary, it's our best chance."

Mary sat still and looked straight ahead and shook her head.

"No, Douglas," she said; "I can't let you do it."

Doug banged his hand on his knee angrily.

"You won't?" he cried, looking at her, his eyes stormy.

"No," she said again.

Doug banged the steering wheel so violently that it cracked. "You don't want to get married!" he flung at her. "All right, I'll go ahead anyway. I'll ride

BACKBONE OF NATION

DEAR EDITOR:—Your paper is the only Michigan paper that stands for the farmer, the backbone of the whole world. If he stopped the world would perish. Glad to see you going after the snakes and chicken thieves. Wish your paper came every week.—F. L. Becker, Wayne County.

Catapult in September or die trying. I'd rather ride that horse than be president." Mary stepped from the car with astonishing swiftness.

"Go ahead," she said coldly, "I'll walk back home. I thought all along maybe you thought more of your riding than you did of me."

"You get back in here!" ordered Doug.

"You make me!" she flashed.

Doug opened the door and stepped out, stopped, facing her.

"Mary," he said, quietly, "don't be silly. Get in and I'll take you back home if you will go. You can't walk ten miles."

"I'll walk before I'll ride with you," she said, determinedly. "Go on and look at your old plow!"

"If you don't get in," he warned her, "I'll put you in."

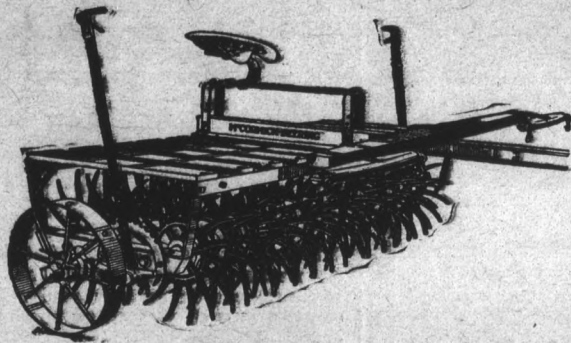
"You touch me," she breathed, "if you dare!"

(Continued in February 18th issue.)

CROWS DESTROY CORN

ASUBSCRIBER living near Scottsville, reports that crows destroyed five acres of corn for two or three of his neighbors last fall. He says there were about five hundred crows in the flock that did the damage.

Two Wonderful Tillage Tools and What You Can Do With Each

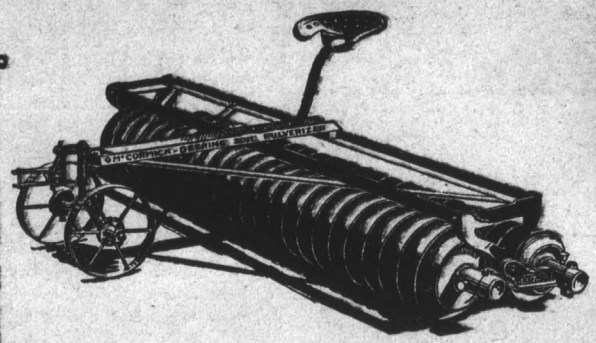


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Drop us a line for folders describing, in full, McCormick-Deering Soil Pulverizers and Rotary Hoes

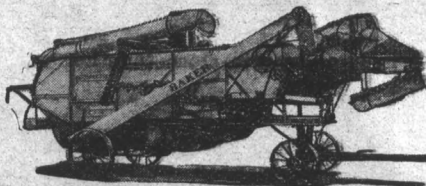
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THE FARM GARDEN

By G. H. HARDEN
(Question Gladly Answered)

GARDEN NOTES

THE mail carrier will soon be bringing the annual supply of seed catalogues. These tidings of spring are most welcome and are the means of passing a cold winter evening around the fire in many homes.

My advice is to try some of the new introductions but do so in a limited way. Some have real merit while others are rather disappointing.

It is not too early to start plans for next year's garden. Rather it is a mistake to wait until the spring work is requiring our undivided attention and then rushing to the nearest seed store and selecting varieties at random.

Don't Save Poor Seed

Do not supply the family table with vegetables and save the later plant production for next year's seed.

The best varieties will deteriorate in quality, productiveness and early maturity when this method is practiced.

If you desire to save your own seed the best plan is to set aside a certain number of healthy, early maturing and productive plants and save the entire crop of these selected plants for seed.

Good Garden Drill

A good garden drill will soon pay for itself in the garden. While there are many drill and cultivator combinations on the market, the separate units are in all cases more satisfactory, and the money saved by buying the combinations is of small consequence when the inconvenience is taken into consideration. The fact that the early sown crops will require cultivation long before the frost tender plants are sown necessitates many changes from one tool to the other.

Add to this the risk of losing or misplacing some of the parts and the tendency toward neglect of the garden work which inconvenience often inspires and my statement is evidently reasonable.

Clean Up Trash

If you have not already cut and burned all old trash and weeds around the garden, do so at once.

These weeds and trash are often the winter quarters of many insects and plant diseases.

For instance, one of the worst plant diseases known as mosaic spends the winter in milk weeds only to make its visit to many of our garden plants the next season.

Try Bush Lima Beans

Try some bush lima beans in your garden this season. They are of very easy culture and when "shelled" and cooked in the green state they are really delicious. Do not plant them until the soil is warm and danger of frost is past.

New Varieties of Peas

Laxton's Progress, Blue Bantam and Hundredfold are new varieties of peas well adapted to the home garden or market. The vines are dwarf and pods large and may be planted quite close together without tangling.

Hotbed

Those who spend the winter anxiously looking forward to the coming of spring will find much consolation in making a planting a hot bed. Aside from this the value of a hotbed in garden operations cannot be measured in dollars and cents.

A few dollars spent for sash will prove a source of pleasure and profit for years to come at no extra cost beyond the labor required to prepare the heating material for which horse manure is used.

Flowers

Many of our farm housewives who plant flower seeds every spring only to have some stray hen scratch them out will find the solution to this problem in a hotbed.

In this way the plants are well

started before being set in the open and as rule beyond destruction by "Bedders" method of cultivation. Also by advancing the season we can grow flowers which ordinarily would not come into bloom during our short Michigan seasons.

Let's have more flowers and more attractive yards in 1928.

SALT ON ASPARAGUS

I would like to know when and how much salt should be put on an acre of asparagus.—D. B., Corunna, Michigan.

ASIDE from retarding weed growth and retaining moisture in the soil to a certain degree there seems to be no advantages to applying salt to asparagus; in fact, our experience has led us to believe that it should be avoided, especially in a soil inclined to bake.

Providing your soil is reasonably free from weeds and fairly retentive of moisture I can see no advantage in applying salt as it has no value as a fertilizer or growth stimulant. In any case I would not apply more than 500 pounds per acre.

MUSKMELONS

I am wondering if you would tell us a good way to raise muskmelons. I mean to get them early. What kind of fertilizer and what to spray with. We have sandy loam soil.—Mrs. F., Wayne County.

NO doubt the most sure way to secure a crop of early melons is to start them under glass about May 1 to 10 and set the plants in the open about June 1.

However, good results can usually be attained in your locality by sowing the seed directly in the field about May 20. In case the glass method is used some method must be employed which will avoid any disturbing of roots when setting in the field as melons do not take kindly to having their roots disturbed.

Inverted sods 4 inches square, berry baskets, or dirt bands are commonly used to start melons.

Well rotted stable manure is very good fertilizer for melons. If the supply is limited use a good big shovelful to each hill, mixing it thoroughly with the soil. Where manure is not available a complete fertilizer containing approximately 4 per cent nitrogen, 8 per cent phosphoric acid and 8-10 per cent potash will usually give good results. Four per cent nitrogen is perhaps the maximum nitrogen that should be used as excessive amounts tend to produce a vigorous vine growth at the expense of fruit production. One-third of the amount used should be worked into the soil around the hill, the balance broadcasted, 800 to 1500 pounds per acre being applied. Give the plants plenty of room. We plant 4x7 feet. Lake Champlain, Bender and Hackensack are dependable Michigan varieties. We spray with bordeaux mixture at intervals of 10 days after vines start to run. The earlier application might contain arsenate of lead which will be effective in controlling the striped beetle.

BRECKENRIDGE GRAIN AND POULTRY SHOW SUCCESS

OVER 2,000 people attended the first annual Breckenridge Community and High School Grain and Poultry Show held January 12 and 13 under the auspices of the Breckenridge High School Agricultural Club. Special exhibits took up all available space in the high school and the rural school exhibits were in the Methodist church. The exhibits were all pronounced fine and in all the show was considered a great success. Mr. Landsburg, the agricultural teacher at the high school, deserves special credit.

I like THE BUSINESS FARMER. The pattern department interests me, also the old songs. Every now and then I run across one I have wanted so badly. It seems like finding a long lost friend. In fact, every bit of it is good.—Mrs. W. L. East Jordan, Mich.

• 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 Shawansee 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.)

Farm Equipment Week

THE week of February 13 has been designated as better Farm Equipment Week. Every farmer in Michigan should look over his various tools at this time; take



V. O. Braun

an inventory of parts needed to put them in first class condition; order repairs; and put each machine in order so that when he wishes to use it he may do so without any delay during the busy season. No doubt some mower or binder knives need replacing; probably several slats are broken in the reel or in the canvasses; the cultivator shovels may need sharpening; or some drag teeth may need tightening. It is a very easy thing to do to put tools away with wornout or broken parts and forget about them until the busy season comes when we wish to use them. Then sometimes we waste a half day or more during the busy haying and harvesting season repairing them. Add to this several more days if broken parts need be ordered by mail or express. When ordering parts, it might be a good idea to order a few extra. On Spring Water Farm we always have a supply of various size bolts, nuts, chain links, knives, etc. on hand, and usually every season some of this extra supply comes in very handy. Look over the farm equipment and tools during the week of February 13 and check up on things.

Keep Tools in Storage

While I am writing about farm tools I also want to mention one more thing, and I hope every farmer who reads this paragraph and is guilty will act. Tools and equipment on the farm should be kept in stor-

LIKES NEW FEATURE

DEAR EDITOR:—I notice your new feature, "Chatting with the Agricultural Teacher." I think it is alright. A lot of us poor farmers need some help of that kind.—H. G., Presque Isle County.

age or under cover when not in use. Drive along the road most any time and one will see hay loaders, binders, plows, and most every kind of farm implement in the fields, under trees, and in the barn yard. Tools are too expensive to buy to allow them to rot and depreciate, thus exposed to the elements of nature. In my Agricultural Economics class I always stress this point, and impress upon the students that allowing tools to sit out all winter is one of the earmarks of a careless farmer.

Horses and Tractor

A few days ago a farmer asked me a very common and important question. He wished to know if I thought it would be cheaper for him to own three horses and a tractor or to own five horses. I wish I had sufficient space to discuss this question. Of course there are many factors which enter, as size of fields; type of farming, mechanical ability, labor problem, etc., that cannot be discussed in the space allotted to this department. The main question arising however, is: Can I maintain and operate a tractor as cheap or cheaper than I can a team? Question No. 2: How much will it cost to feed the team a year, saying nothing about the depreciation of team or tractor? I doubt if many farmers could give an exact answer to the above question although they nearly all feed teams. I thought this was a good question to give to my Animal Husbandry class, so I put the question to them as follows: How

much will it cost to feed a 3000 pound team for one year at present feed prices; three months of the year they are to be fed on an idle ration; three months on a medium work ration; and six months on a heavy work ration? The answers varied from \$192.46 to \$249.19. This variation I noticed was due mostly to the varying prices of feed, as some of the boys used Detroit feed prices, while others used the prices now prevailing at auction sales. For the farmer the latter price is probably the more fair one to use, and applying these prices, which were, clover and alfalfa hay \$12.00 per ton, corn 70c per bushel, oats 55c per bushel, corn stover \$5.00 per ton, and oat straw \$8.00 per ton, the cost for one year with balanced rations was \$196.46.

The rations fed were as follows: For idle work, clover hay 10 pounds, corn 3 pounds, oat straw 3½ pounds, or total cost for three months \$28.68. For medium work, clover hay 12 pounds, corn 4 pounds, corn stover 8 pounds, or total for three months, \$36.93. For heavy work, alfalfa hay 12 pounds, corn 5 pounds, and oats 7 pounds, or cost for six months \$130.85. A ration is that quantity of food which is consumed in 24 hours by an animal weighing 1000 pounds. Feeding tables are made following this rule, and for this reason the above rations are computed for a 1000 pound horse for 24 hours in order to compare and balance with the feeding standards for horses for various kinds of work. To find the amount the team would eat in 24 hours simply multiply the above feed rations by three and the amount of feed used daily can be found.

This problem is not perfect, but I consider it very good. All the rations balance and the result was obtained by a young farm boy by the name of Clifford Mallory, from Owosso. There might be some improvement but I dare say it is better than a lot of old timers could do.

I will not discuss how much it will cost you to run a tractor a year to do the work of this team, but no doubt it would be less. I know it is much less at Spring Water Farm, and our tractor does the work of about six horses in the spring as it never tires, works long hours, and gets over the ground much faster.

February

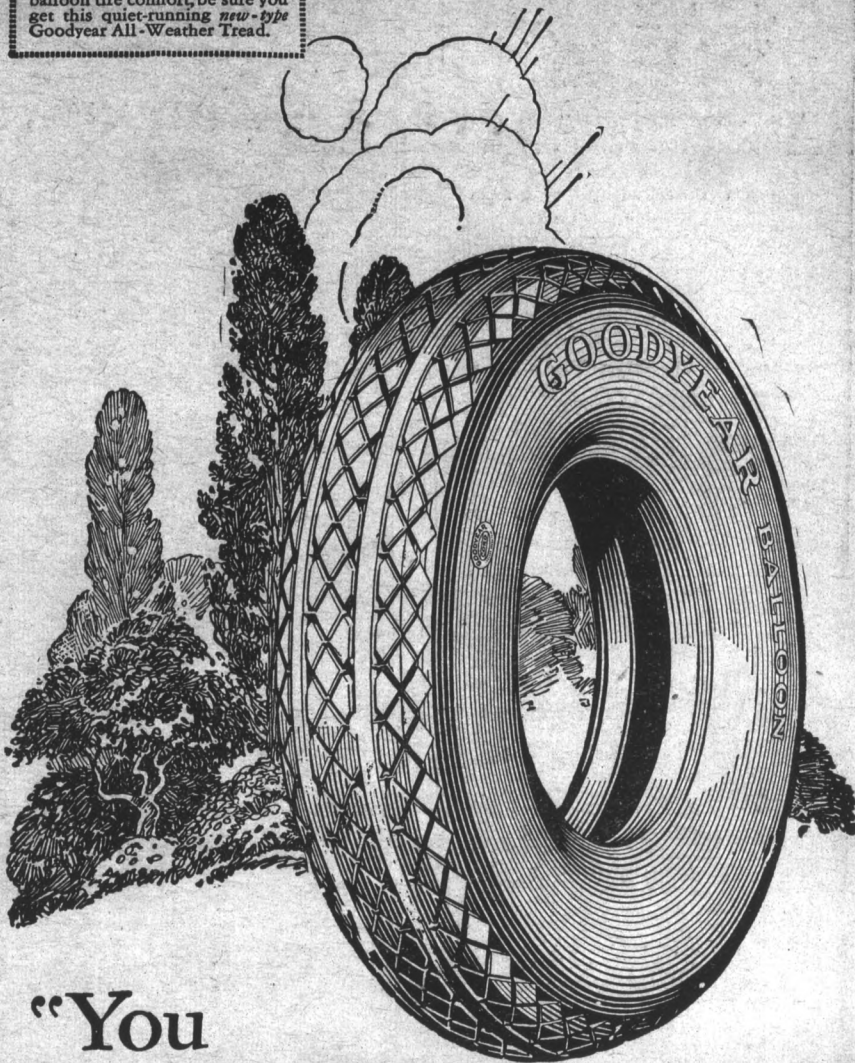
I cannot finish this department without mentioning a word to the good farm people concerning the month of February. It is a very notable month; not because it has twenty-nine days this year, but because two of the world's greatest men were born during this month. I hope every farm man and woman in Michigan will take a little time to read something concerning Abraham Lincoln and George Washington this month. I believe that your thoughts will be a little nobler, and your lives a little richer as a result of the extra effort put forth. In less than one hour's time you can read that great short story, "The Perfect Tribute," about Lincoln, which is one of the best short stories in print. We should also bear in mind that Abraham Lincoln was a great benefactor to agriculture. It was during his administration, and with his influence that the Morrill Act was passed which provided for the establishment of our present agricultural colleges and experiment stations. This was probably the greatest beneficial act of legislation that has ever been passed to aid the agricultural industry.

Farmers in the United States produce 2½ times more per man than those in Europe.

When a producing cow begins to put on flesh above normal weight, cut down the grain allowance.

Chickens that are to be fattened should receive soft feed that can be quickly and easily digested.

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.



"You ought to know this"

A man in your town sells the best tire you or anyone else can buy for the money you want to pay.

He has your size and type of tire in stock for you right now; he will get it out, put it on the rim for you, fill it with air.

And all the time that tire is serving you, he will be here to service it and see that you get the maximum results out of it.

This neighbor of yours is your local Goodyear dealer; the tire he has for you is "The World's Greatest Tire"—Goodyear.

Your Goodyear dealer's service will save you money. Save you time and trouble. Pay you bigger returns on every tire you buy.

It is part and parcel of the Goodyear policy: *to build the greatest possible value into Goodyear products, and to provide facilities so that users can get all this inbuilt value out.*

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 lower-priced standard quality Goodyear Pathfinder

The Greatest Name in Rubber

GOODYEAR

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

THE CHILDREN'S HOUR CLUB

Motto: Do Your Best
Colors: Blue and Gold

Mildred Darby, President
Thomas McCarthy, Vice-President
Uncle Ned, Secretary-Treasurer

As a member of The Children's Hour Club I pledge myself:

- To live a Christian life and keep the Ten Commandments.
- To do my best in everything I do.
- To be true to my country, the United States of America.
- To do at least one good deed each day.
- To assist the less fortunate than I.
- To be considerate of others.
- To be kind to people and to animals.
- To become educated.
- To always conduct myself in a way that is becoming to a lady or gentleman.

DEAR BOYS AND GIRLS:—February is the month in which two great Americans were born. I need not tell you that I refer to Washington and Lincoln because you have already guessed that. Of course, every school boy or girl knows about them. But I do want to say a few words about my favorite, Abraham Lincoln, the greatest man this country has ever produced, in my estimation. And he came from the farm, a product of country life, like you and I.

Abraham Lincoln's parents were agricultural pioneers. It is true that his father was known as a carpenter, but it was the custom in those days for farmers to have another occupation so they could earn sufficient money to feed, cloth and shelter their family. Lincoln as a boy performed all the various tasks on the farm and when work was dull he clerked in stores. Upon attaining manhood he abandoned farming but he did not give up his interest in it or cease to think on its problems. In his public life he tried to serve agriculture to the best of his ability, doing his greatest service when, as President of the United States, he signed the Morrill Land Grant Act, giving federal funds for the support of agricultural colleges.

As long as I can remember back, even in my earliest boyhood days, I have always considered Abraham Lincoln with the most sincere admiration. I never look at his kindly face without a feeling of love. Homely? Far from it. I would give far more to be a second Abraham Lincoln than I would to be the most handsome hero the world has ever known.

My dear boys and girls, I hope you will read and study about Abraham Lincoln at every opportunity. It will make you better men and women, I am sure. You cannot read about him without being benefited, if you are really interested.—UNCLE NED.

Our Boys and Girls

Dear Uncle Ned: Ah's just gwine to say a few words. Ah's read de paper ebery week and hav a nice time. Ah's wood like to make de other folks laf. Dis am mah eit yeah to school and vill graduate in de spring ef noddings happens. Ah's vill hav ta close before W. B. dits it.—Rufes, Yale, Mich.

—For goodness sakes, who is it? I didn't know what to do with this letter. I offered it to Mr. Waste Basket, but he just nibbled at it for a minute and then got sick. So I finally decided to publish it and see if the girls and boys could digest it.

Dear Uncle Ned:—Well here I am again after an absence of over a year, much against the rules of the club.

I don't know if you still remember me or not, so I'll tell you who I am. I am the girl that wrote to you about Laura May Rodgers, the girl who suffered from heart disease in the The Mennonite Children's Home in Millersville, Pennsylvania. It will be two years since she died on the twenty-second of April.

Now I will describe myself. I am fourteen years of age, am five feet eight inches tall, weigh one hundred and eight pounds, have blue eyes, long light hair, have a light complexion, and my birthday is the fifteenth of September.

The Children's Hour

ABRAHAM LINCOLN



He was born February 12, 1809.
He was a flat boatman at the age of 19 and a clerk in a store at 21.
He served as a volunteer in the Black Hawk at the age of 22 and later became captain.
He was elected to the Illinois legislature in 1834 at the age of 25 years.
He married Mary Todd in 1842.
He was a member of Congress in 1847-49.
He won a national reputation in 1858 by his famous debates with Stephen Douglass, one of the most famous debaters of his day.
He was first elected to the Presidency in 1860 and took his oath of office March 4, 1861.
He issued his famous emancipation proclamation, freeing the slaves, in 1862.
He was re-elected President in 1864.
He was shot in Ford's Theater in Washington, D. C., April 14, 1865, by Wilkes Booth and died the following morning.

I do not go to school because I passed the eighth grade last spring. I can't go to high school because I have to stay home and help my mother. I might get

an education later if it is at all possible. Now I guess I'll have to tell you why I did not write to you sooner. I did not write because I couldn't pay for my own



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.)

SCOUTING AND 4-H CLUBS

PERHAPS some of our boy or man readers have wondered whether the Boy Scout program recently taken up by this paper might prove to be competing with the 4-H Club work. We see no reason why this should be so; rather we feel that the two go hand in hand, the one aiding and supplementing the other.

The 4-H Club emphasizes the occupations, interests, and needs of farm life, teaches boys to be better farmers and to make the most of country life. Scouting emphasizes those interests which all boys have in common, whether they live in the city or the country.

All boys want to be trustworthy, helpful, brave, and clean. All boys want to do their "duty to God and country, to help other people at all times," and to keep themselves "physically strong, mentally awake, and morally straight." All boys want to be efficient and self-reliant, able to take care of themselves and others in accidents, emergencies, or the everyday experiences of life. All boys want to have some fun out of life and to meet and mingle with other boys. That is what Scouting means.

Since the Lone Scout program became a part of the Boy Scouts of America, every effort has been made to add to or change the Scout program to make it more suitable to the rural boy. There were many tests and merit badge subjects in Scouting that applied to the country Scout, but more have been added. The last number of "Scouting" gave a long list of new merit badges for the rural Scout. Look them over:

Old List: Agriculture, Beekeeping, Dairying, First Aid to Animals, Forestry, Gardening, Insect Life, Poultry Keeping, Weather.

New Badges: Farm Layout and Building Arrangement, Farm Records and Bookkeeping, Beef Production, Fruit Culture, Nut Culture, Soil Management, Corn Farming, Hog and Pork Production, Sheep Farming.

In addition to there are merit badges in various crafts that the farmer needs to know: Automobiling, Blacksmithing, Carpentry, Cement, Handicraft, Machinery, Masonry, Painting and Pioneering. All of these studies will help to make a better farmer and country dweller, as well as a better Scout.

RURAL SCOUTING APPLICATION

(Only boys twelve years or over are eligible)

Date.....192.....

I wish to become a Boy Scout in the following manner (check which method):

I think a troop could be started in my neighborhood.....

Please tell me how to do this and whether there is a Scout Headquarters in a nearby city where I could get information and help.

I do not think a troop could be started, for the present, at least, but I would like to help organize a Farm Patrol. Please tell me how.

I wish to register as a Lone Scout.

I do not think that a troop or patrol could be started here, for a time at least, for the following reasons:

In signing this application, I do so with the knowledge and approval of my parents or guardian and agree to be governed by the Scout Oath and Law, the rules of the National Council, and the Troop, Patrol, or Lone Scout division, of which I may become a member.

If registering as a Lone Scout, enclose 50 cents.

Name Age
R. F. D. and Box
or Street and No.
Town County State

Cut out this application, fill in, and mail to Scouting Editor, Michigan Business Farmer, Mount Clemens, Michigan.

stamps. Daddy pays for all of them and I don't like to write any more than I have to. That is, I don't answer my letters as soon as I used to.

I am sending in my voting ballot. Hope we get a good president and vice-president for our club. What do they do?

Mr. how I do hope my letter won't get in the waste basket! Mr. Waste Basket certainly must eat a lot of letters.

We're having some real nice weather out here for January.

Well so-long everybody, hope I can come again some time.—Marie Sudeman, Comins, Mich., Box 32.

Well, well, Marie! Glad to hear from you again. No, I had not forgotten you but I had begun to think you had deserted us. Try and come again soon.

Dear Uncle Ned—I have neglected something that I should have done long ago. That was writing a letter to you.

I haven't written for quite a while so I thought I would write now, when I could find time.

I guess I won't go along and sit on Mr. W. B. this time for I think he has all the letters he wants by this time, because he didn't gobble up my last letter I sent.

My father is building a basement under most of the barn this summer, and I help our hired man haul stones. When he cannot bring mortar, I bring some to my brother. My father struck some real wet

TONGUE TWISTER

I READ in M. B. F. about tongue twisters so thought I would send in one for your next issue: How much wood would a woodchuck chuck, if a woodchuck could chuck wood? Why, if a woodchuck could chuck wood he would chuck all the wood a woodchuck could chuck.—Ester Plummer, Pawama, Mich.

girl when he was digging the dirt out from under the barn. He said that he thought he could strike water near the top of the ground.

I am in the sixth grade this year, and I'm ten years old. All my studies are easy but geography, and that is a little hard for me.

I must close now as supper is nearly ready.—Your loving nephew.—Gerald Beach, Walkerville, Mich.

A Game to Play

JUMP THE SHOT

PLAYERS of this game, who are apt to be youngsters, though older people may play it, stand in a circle, with one in the center who is the "swinger." A bean bag is tied to the end of a long rope, and the one in the center swings this around on the floor so that it comes just in line with the feet of the players. As the bag approaches any player, he jumps into the air to avoid it. If he is hit, he must drop out of the game. The player who stays in longest wins, and becomes swinger next time. Warn the swinger not to raise the bag from the floor, or someone might be hurt.

Riddles

What foods represents dirt and gob-lins? Sand-wiches.

What food represents impertinences? Sauce.

What tree is never alone? The pear.

What tree is like a handsome girl? The peach.

What tree is like a stylish boy? The spruce.

What stands behind a star? A policeman.

As flat as a dollar, as busy as a bee, the prettiest little thing you ever did see. A watch.

Why can't you put your shoe on the left foot first? Because there is always one left.

TRY THIS ON A FRIEND

Ask someone this question: "Can you tell a phone from a street-car?" Thinking you have asked if one can telephone from a street car, he will answer no.

How To Address Your Letter:

UNCLE NED,
The Business Farmer,
Mt. Clemens, Mich.



Dependable!

1. Only the cream of the crop selected for *PINE TREE* brand.
2. Cleaned and re-cleaned to the famous *PINE TREE* standards.
3. *KNOWN ORIGIN*. Certificate with every bag.
4. Sealed by Dickinson so you get what you pay for.

"PINE TREE"—THE NATIONAL SEED

Sold by good dealers everywhere

THE ALBERT DICKINSON CO. CHICAGO
MINNEAPOLIS BUFFALO NEW YORK PITTSBURGH BOSTON

"PINE TREE" FARM SEEDS

THE KITCHEN

By Dorothy Rose

A kitchen: where when work is done,
Order lies like a sunny pool,
Till children, in a bubbling rout, come in
from school.

Through glistening glass, a winter sun
Shines on three plants in a row,
And stars, at night, look in on blossom
stars that grow

Among their deep green leaves.
A low and friendly chair
Stands beside a window, where
The road goes by, and trees
Draw shadows on the snow. On hooks
Bright pans and polished spoons
Give back the flash of winter noons;
And, though the room shines like rain
—washed green,

Not anything can ever be too clean
To touch. The dancing foam
Of laughter waits forever near
And listening, you can hear
The heart-beats of a home.

COLDS ARE CONTAGIOUS BUT
CAN BE PREVENTED

HOW often during winter months
is heard the comment, "We all
have colds over at our house,
but I don't know where we got
them." Nearly always this comment
means that one of the family con-
tracted a cold first, then other mem-
bers got some of the germs and one
by one all of the family got the
disease.

Ordinary colds and sore throats, or
tonsillitis are very contagious. They
can be prevented if the same pre-
cautions are taken as for any other
contagious disease.

A member of a family who has a
cold or sore throat should be put in
bed in a room by himself. No per-
son with either condition should be
permitted to sleep with a well per-
son or in the same room with a well
person. A person with a cold or
cough should never cough or sneeze
unless he has his mouth and nose
covered with a handkerchief, better
yet, with a suitable piece of old soft,
clean cloth or soft paper that may
be burned when once used.

Sunlight is a deadly enemy of dis-
ease germs. The person who is iso-
lated, or quarantined, should there-
fore, be kept in a room where the
sun can enter freely. The room
should be reasonably large and have
plenty of windows so ventilation can
be regulated. Fresh air does not
need to be cold air.—Dr. H. L. Youtz.

SCIENCE DISCOVERS LIVER VAL-
UABLE FOR VITAMINS

THE liver of most animals is a
store-house of many food ele-
ments. In very few foods do
we find such an abundance of vita-
mins and minerals. Just recently
medical authorities have discovered
that liver, especially from beef, is a
cure for anemia. Liver has been
of pernicious anemia when given
found to be very beneficial in cases
with fresh vegetables and fruit.

Who has not heard of the splendid
results obtained when cod liver oil
is used for babies and grown folks?
Many people, however, prefer to eat
liver instead of taking cod liver oil.
The combinations of vitamins A, B
and C together with the iron, phos-
phorus, and calcium in liver make it
a food of great value. Liver is espe-
cially valuable for the blood, but the
many food elements give tone to the
entire body.

There are various ways of prepar-
ing liver to make it an attractive
food, points out Marie Doermann, ex-
tension food specialist for New
Jersey. At this season when toma-
toes are still plentiful, this recipe
may appeal to many: Cut a thin
slice from the stem and of medium
sized tomatoes. Take out seeds and
pulp, sprinkle inside of tomatoes
with salt, invert, and let stand one-
half hour. Parboil 1 pound of calf
or beef liver and grind. Season with
2 tablespoons of finely chopped on-
ion, 1 teaspoon of salt, and ¼ tea-
spoon of pepper. Moisten with pulp
from tomatoes. Refill the tomatoes
with this mixture. Cover with but-
tered crumbs or small strips of bacon
and bake in a moderate oven for
about a half hour.

Braised liver may appeal to some:
Take 1 carrot, 1 onion, 1 stalk cel-
ery, and 1 small turnip, and cut each
in cubes. Place in the bottom of a
casserole or baking dish with a
tightly fitting cover. Place one
pound of liver cut in pieces on the
vegetables. Cut ¼ pound of bacon
or salt pork in pieces and place on
the liver. Add meat stock or water

THE FARM HOME
A DEPARTMENT FOR WOMEN
Edited by MRS. ANNIE TAYLOR

DEAR FOLKS: "Service" is a simple word, but what a wealth of
meaning it carries! The more we allow our minds to play over
it and delve into its possibilities, the more are we amazed and
awed by the vastness and depth of its significance. To attempt to
enumerate the various kinds of service would be futile. It would take
seven wise men seventy times seven years to compile a list, which would
take up approximately seven hundred volumes. By that time, you and
I would no longer be interested in the affairs of this world, and our
grandchildren seven times removed would not know what it was all
about.

The greatest of all service, of course, is unselfish, impersonal service
to mankind, such as was given to humanity by Jesus Christ. But Christ
was a divinity, and only occasionally down the centuries does a man
or a woman stand out as even faintly approaching the Christlike in
their life's conduct. Of these few, Abraham Lincoln and Florence
Nightingale are notable examples.

It is not likely that any of us can be Lincolns or Nightingales sacri-
ficing ourselves to the world, but in our steady plodding onward
through life we can, often without swerving from our line of march,
lighten the burden of him or her who walks near us. A supporting
hand under the elbow over a rough place in the road is a small thing
in itself, but it eases the load, and we win thereby someone's lifelong
gratitude and friendship.

Rejoice if you are able to help your fellowman, even ever so little,
for you are one of God's
chosen ones. The privilege
of service is life's greatest
reward.

Your Friend,
Mrs. Annie Taylor

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

in which a bouillon cube has been
dissolved to cover the vegetables.
Cover and bake in moderate oven
two hours.

Personal Column

Songs Wanted.—"Package of Old Love
Letters;" "Get Away Old Man, Get
Away;" "Wreck of the Royal Palm;"
"Put My Little Shoes Away;" "I Wish
I Were A Single Girl Again."—Mrs. B. H.

Covering Old Floors.—Is there anything
like cement or something of that nature
that one could put on old silt-wood floors?
Our house has been built nearly thirty
years and was made with soft-wood
floors, and they have large cracks and in
the bedrooms the boards are worn nearly
through. I would like to get something
I could put on to cover it all and make
a hard floor. Linoleum would break

through under the bed casters.—Mrs. S.
H. F., Ionia County.

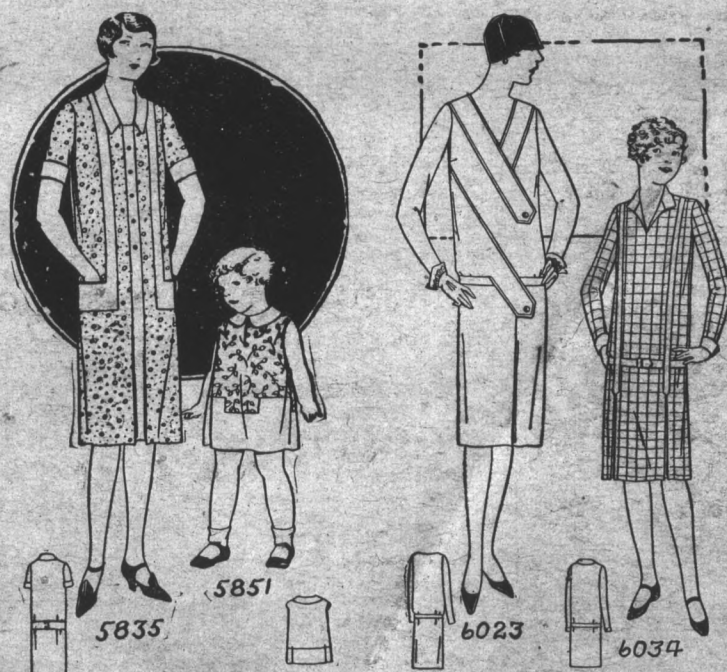
—It would be possible to use linoleum
over your wood floor, provided it were
smoothed and covered with one or two
layers of builder's felt before laying the
linoleum. There are on the market sev-
eral products which can be applied over
old wood floors. Very likely your local
mason can give you information regarding
these products. The nature of them is
such that they need to be applied by an
experienced workman. Upon request we
will furnish the names of manufacturers
of these products.

Wants Two.—"Crazy Words, Crazy
Tune;" "Get Away Old Man, Get Away."
—Miss M. W.

Can You Supply?—"Pal O' Mine;" "No
Wonder;" "O Katharina;" "I'll See You
in My Dreams."—Miss G. S., Bay City.

Know This One?—"The Drinking House
Over the Way."—Port Huron Subscriber.

AIDS TO GOOD DRESSING



6023.—Ladies' Dress.—Cut in 6 sizes: 34, 36,
38, 40, 42 and 44 inches bust measure. A 36
inch size requires 3 ½ yards of 40 inch material.
The width of the dress at the lower edge with
plaits extended is 1 ½ yards.

6034.—Girls' Dress.—Cut in 4 sizes: 8, 10,
12 and 14 years. A 12 year size requires 2 ½
yards of 36 inch material together with ¾ yards
of contrasting material for trimming bands, and
facing on collar, cuffs and belt, cut lengthwise.

5835.—Ladies' Morning Frock.—Cut in 6
sizes: 34, 36, 38, 40, 42 and 44 inches bust
measure. A 38 inch size will require 2 ½ yards
of 36 inch material together with one yard of
contrasting material. The width of the dress at
the lower edge with plaits extended is 1 ½ yards.

5851.—Child's Dress.—Cut in 6 sizes: 1, 2,
3, 4 and 5 years. A 4 year size requires ¾
yard of plain and ¾ yard of figured material 40
inches wide. If made all of one material 1 ½ yard
is required.

BE SURE TO GIVE SIZE

ALL PATTERNS 13c EACH—
2 FOR 25c POSTPAID

ADD 10c FOR SPRING AND SUMMER
1928 FASHION BOOK

Order from this or former issues of The Business
Farmer, giving number and sign your
name and address plainly.

Address all orders for patterns to
Pattern Department
THE BUSINESS FARMER
Mt. Clemens, Mich.

Favorite Songs

THE MINER'S CHILD

The miner was leaving his home for his
work,
He heard his little child scream,
He went to the side of the little girl's bed,
Oh! Daddy I happened to dream.

Chorus:

Oh! Daddy don't work in the mine today,
For dreams that often come true,
Oh daddy, my daddy, please don't go
away,
I never could live without you.

I dreamed that the mine was steaming
with fire,
For men and all forms of lives,
Just then the scene changed, and the
mouth of the mine,
Were covered with sweethearts and
wives.

Klever Kiddies

(Every so often one of our children says
something that makes us laugh—whether
we want to or not. If your youngster, or
one of your young friends, has said or
done anything that appeals to you as
being particularly humorous, we will be
glad to hear about it and publish it under
this head, if it can be used. Let's all
help to make this corner a success.)

The baby was a cute little fat chub, and
my sister had her picture taken almost
nude. One day when my sister was house-
cleaning, the little girl saw her washing
the glass of the picture, and she said:
"Mamma, are you washing the baby?"
Her mother answered: "Yes, dear. What
makes you ask?" "Well, when you get
her washed, will you dress her?"—A
Subscriber.

Folks at Our House Like—

(We are starting this little corner so
that the families of THE MICHIGAN BUSI-
NESS FARMER can exchange their favorite
recipes and food combinations. What
special meal or dish do your folks greet
with joy when it appears on the table?
Write and tell us about it.)

Fig Filling.—Folks at our house like
fig filling for filled cookies and layer cakes.
It takes 1 lb. figs; 1 qt. or lb. of pears; 1
lb. raisins; 2 cups brown sugar, or more
if not sweet enough. Run the figs (after
washing and stemming) through the med-
ium knife of the food grinder, also the
raisins and the pears. Save the juices
and put all to cook until like marmalade.
Put in glass cans or jelly glasses when
done and cover with paraffin wax. This
makes the figs go a long way.—Mrs. R.
D. S.

What To Eat

School Lunches.—Have you ever car-
ried a cold lunch day in and day out? If
you have, you know what it's like to open
your lunch box at noontime and feel the
healthy hunger which you have been ac-
cumulating all morning long suddenly take
wings at the sight of the usual unappetiz-
ing sandwiches? It is a real burden. I
will admit, to pack a lunch box every day,
and to know what to put into it has taxed
many a good woman's ingenuity. If your
husband or children have the habit of
eating only about half of the food you
send with them in the morning, try some
of the following suggestions.

In the first place, the lunch should be
packed in a box so it will not crush. A
metal box with a thermos bottle included
is the most desirable. These can be had
in small sizes suitable for school children
or in larger sizes for the grown folks.
Sandwiches, cookies, and cake should al-
ways be wrapped in oiled paper so as to
keep them fresh and appetizing. A small
screw-top jar is a handy addition to a
lunch box, for in it can be carried many
cooked or moist foods to be eaten with a
spoon, such as stewed fruit, custards,
jello, salads, baked beans, etc.

Since sandwiches form the main part of
the lunch, they should be prepared with
care, and there should be a variety from
day to day. It is also a good plan to in-
clude two or more kinds of sandwiches
in the same lunch, as this coaxes the ap-
petite. Raisin, whole wheat, nut, and
brown bread are wholesome and help add
variety.

Sandwich Fillings.—Peanut butter mix-
ed with any of the following—Jelly, jam,
cherry juice or pulp, melted butter, prune
pulp, salad dressing. Cottage cheese mix-
ed with jelly, jam, or nuts. Cottage
cheese and lettuce. Lettuce with salad
dressing. Ham and sweet pickles (ground
or chopped). Cheese—Swiss, Cream, or
American. Onion. Cold roast pork, plain
or with apple sauce. Roast beef. Chick-
en. Hard boiled egg chopped with crisply
fried bacon. Chopped hard boiled egg
moistened with onion juice. Relish. Con-
serve. Jam. Cabbage salad. Celery.
Baked beans.

Salads.—Chicken, cabbage, potato, ap-
ple and celery, fruit, vegetable, salmon,
tuna fish.

Fruits.—All fresh, dried, and canned
fruits may be used. Too much emphasis
cannot be placed on the importance of

fruits, particularly the fresh fruits in the lunch.

Desserts.—Cookies, simple cakes, custards, pudding, candy. For children, pie too heavy a dessert.

Beverages.—Milk and cocoa for the cool child. Milk, cocoa, hot tea, or coffee for the adult. Cream soups in the new bottle make a happy addition.

There are any other further suggestions that you feel that we can offer to you in the packing of cold lunches upon your family do not hesitate to call

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.

162.—Baby swing for male rabbit, N. Z. Red preferred.—Buddie Jensen, R. 2, Jones, Mich.

Ticks in Trade of Home Dressmaking

By MRS. DORA R. BARNES

ARE one of the many women who on the tailored touch to a garment, but who have never dared add it themselves for fear they would botch the job? No longer need your heart be afraid, for in a series of articles under this head Mrs. D. R. Barnes, Clothing Specialist of Agricultural and Mechanical College, Texas, is going to instruct you in the art of setting in pockets, making and button holes, binding a placket, mitering corners, making French piping, and trimming with decorative stitches, all of which is made so clear, by the illustrations which accompany each step. The woman dressmaker will cut these patterns out each time as they appear and paste them in her scrap book; they should prove a topic of much interest and discussion at the meetings of the community sewing clubs.

TAILORED FINISH

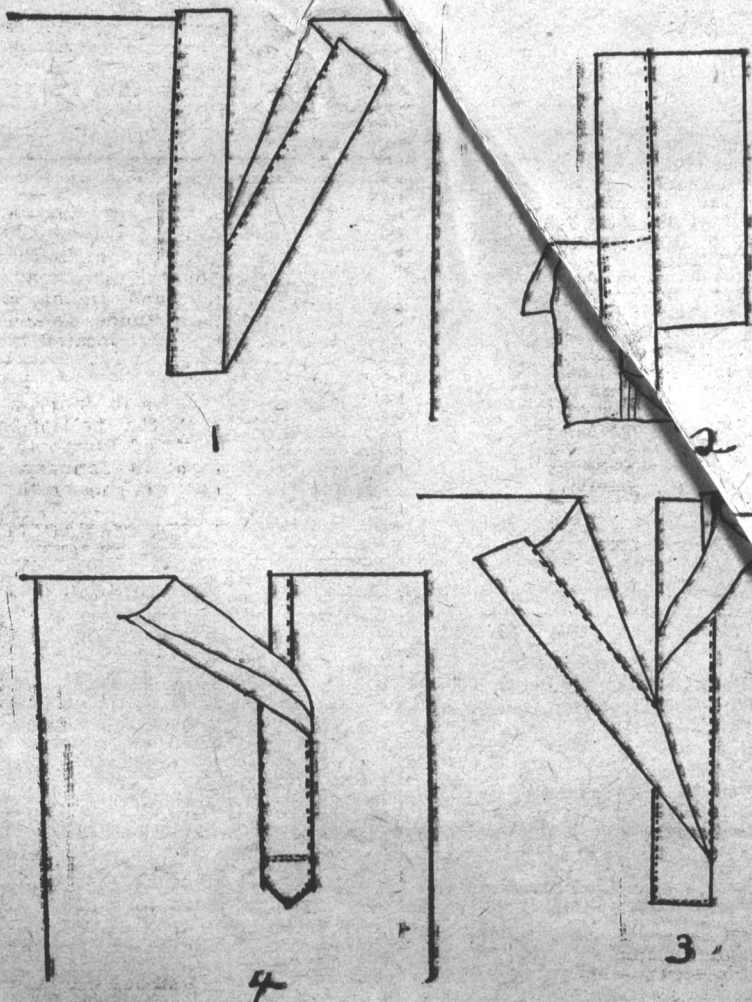
Bound Plackets.—Bound plackets are used for both under and outer garments. Cut a lengthwise strip of material twice the length of the placket and twice the desired width of the finished binding, as the seams. One and one-half to two inches is the usual width of this strip. Begin at the top of the placket and stitch down one side up the other, sloping almost to point at the bottom of the placket, otherwise a little point will be formed at the bottom of placket. Turn opposite edge of strip one-half inch and fold over so as to just cover stitching. Stitch, turn the binding the right-hand side of the placket back against the wrong side of

garment and catch with the hand. FIG. 1.

Bound and Faced Plackets.

Bound and faced plackets are used on under garments. Cut a strip same as for bound placket and stitch on first time same as for bound placket. Crease fold at bottom of placket and cut away the under part of the left hand binding. Make a cut about one-half inch from the lengthwise fold extending to the top of the binding. Fold the remaining part flat down to the wrong side of garment and stitch into place forming a facing at the bottom of the placket. A row of stitching will show on the right side of the garment. FIG. 2 and 3.

Shirt Sleeve Placket.—Shirt sleeve plackets are also bound and faced plackets. Cut the opening as long as desired. This is usually 4 inches long and one inch past the fold on the under side of the sleeve. Take a lengthwise strip of goods 3 inches wide and twice the length of opening. Begin at the top of the placket, placing right side of binding to wrong side of sleeve and stitch down one side and up the other of the placket. Fold this facing back on the under side of sleeve at seam and baste on right side. Trim facing seven-eighths inch as far as opening. Clip facing one-eighth inch, turn one-eighth and baste flat to sleeve. Measure facing to upper part of sleeve five and one-half inches from the bottom of sleeve and cut facing straight across. Trim edges so as to form a point, cut away any unnecessary cloth and baste to place. Stitch close to edge of facing and twice across at the top of opening one-eighth inch apart, and deep enough to catch raw edge. See FIG. 4.



The four illustrations show the bound and faced plackets. By reading the instructions in the accompanying article one can quickly understand how it is done.



An Account with your soil bank

YOU would not try to overdraw your bank account. You should be equally sure that you do not overdraw your soil fertility account. The point frequently is reached where the soil becomes so depleted that profitable crop production becomes impossible.

Farmers of foresight anticipate such conditions before they occur. They follow a carefully planned rotation involving the regular and plentiful use of commercial fertilizers for each crop grown.

Just as the New York Central Railroad must provide a reserve fund for future transportation needs, so must the thoughtful farmer make provision for a surplus of plant food in his soils to take care of future crop production.



Ordering your fertilizers early is a good business practice and protects you if the spring is early.

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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.

Loosen Up Chest Colds

Just Rub Away Danger

When your lungs are congested and you have a hacking cough watch out! Rub Musterole on the sore spot. There's nothing better for quick, safe relief. Musterole penetrates the skin bringing a soothing, cooling sensation and welcome relief. Recommended by doctors and nurses, Musterole relieves cold in chest, sore throat, bronchitis, aches and pains in the back and joints. Keep Musterole handy. Mothers: Musterole is also made in milder forms for babies and small children. Ask for Children's Musterole.



BETTER THAN ANY OTHER MUSTEROLE



PROTECTS RESISTANCE

Children and grown people need to fortify their strength to prevent disastrous coughs and colds.

SCOTT'S EMULSION

rich in cod-liver oil vitamins, builds strength, provides energy, and protects your resistance. Take Scott's Emulsion regularly after meals during the Winter.

Scott & Bowne, Bloomfield, N. J.





Cultivate with Kovar

For Profitable Farming

SOME farmers go broke while others succeed, and here's a secret of many of the successful ones. They GET THE GREATEST POSSIBLE PRODUCTION OUT OF EVERY ACRE THEY CULTIVATE. 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.

STUDY KOVAR CONSTRUCTION

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 of the teeth protecting them against breakage and preventing accumulation 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.

GET FULL INFORMATION

Learn all about this cultivator for your crops' sake.

Write distributor or direct to factory now.

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"The Original Quack Grass Digger"

Please send me information of the KOVAR Cultivator:

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ASK US If you have any questions regarding legal matters that you want answered just write in to the Legal Editor and he will reply by first class mail. Address your letter.

LEGAL EDITOR, THE BUSINESS FARMER, Mt. Clemens, Michigan.

INSURE YOUR FARM PROFITS



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FARM BUREAU
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SEEDS-FEEDS
AND **FERTILIZER**

Your Cost Sheet tells an interesting story of profits or losses. Many Michigan Farmers have found in Michigan Farm Bureau Seeds, Feeds and Fertilizer the answer to the perplexing problem of how to make bigger profits.

Whether your problem is one of obtaining pure, adapted Seeds, free from troublesome weeds; of finding a suitable Fertilizer; or of increased milk production in your dairy herds, or egg production in your poultry flocks, you'll find the answer in one of the interesting booklets covering the subject, which we will gladly mail you—on request.

Just tell us YOUR problem. We'll show you the way to better profits.

MICHIGAN FARM BUREAU SEED SERVICE
MICHIGAN FARM BUREAU SUPPLY SERVICE
LANSING-MICHIGAN



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.)

HETERODYNE

HAVE you ever listened to two clocks ticking? For a time they will be in step and again out of step resulting in a succession of new periods which may be several seconds or even minutes in length, but in any case are much longer than the period of the ticking of either clock.

When two singers harmonize they sing notes of a slightly different pitch (frequency). The sound waves of the two notes will be in step for a moment and then out of step and "beats" will be produced. The frequency or pitch of the beat note is the difference between the frequencies of the two notes sung.

Two radio stations transmitting with different frequencies produce beats in the same way as the two clocks or two singers. Suppose we have a station operating on 1,000,000 cycles (300 meters) and another on 1,010,000 cycles (297 meters). These stations will produce a beat of 10,000 cycles (or 10 kilocycles). Now 10,000 cycles is a sound heard as a rather high pitch or whistle by most people's ears. However, most radio sets will not reproduce such a high pitch and so it does not get through the set and does no harm. This is the reason why the Radio Commission has placed the broadcast "channels" 10 kilocycles apart.

Now suppose that the operators of the two radio stations are careless and allow their stations to wander a little bit "off wave", and that one is working on 1,004,000 cycles and the other on 1,006,000 cycles. The beat note will now have a frequency of 2,000 cycles—the difference between 1,006,000 and 1,004,000. 2,000 cycles is approximately the pitch three octaves above "middle C" on the piano. Such a pitch will come though the radio set strongly whenever it is tuned to either of the offending radio stations and satisfactory reception will be impossible no matter how selective the radio set may be.

Heterodyne come from the Greek. "Dyne" means "force" and the first part of the word means "different." Hence "different force" is a literal translation. In radio it means that the combination of two wave forces gives us a new force of different frequency. Sometimes this new frequency is audible as in the example given above and sometimes it is a new radio frequency as in the heterodyne type of radio receiver.

EXPENSIVE MOMENT

MANY of you listened in the big hook-up of January, 1927, when Will Rogers, Al Jolson and Dorothy Whiteman, Fred Stone, but few of you know that the entertainers were paid \$25,000 for their hour's service. Will Rogers received \$10,000 for acting as master of ceremonies, while Al Jolson was paid \$7,500 for fifteen minutes of singing and joke cracking. The remaining \$7,500 went to the other entertainers with Paul Whiteman getting the largest share of it.

RAVE OF CRYSTAL SET

The Crystal Radio Company claims 600 mile reception with earphones from one of their sets. Could you hear programs from Detroit, a distance of 150 miles?—C. M., Oshtemo, Mich.

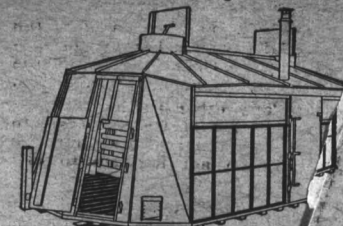
WHILE a crystal receiving set might get signals from a powerful station under most favorable conditions at a distance of 600 miles, the reliable range of such a set is very much less than this. We do not think that reliable signals could be received on a crystal set at a greater distance than 50 miles from the Detroit stations.

KEEP MILK FLOW HIGH

Keep the dairy cow producing well. If her milk flow falls off due to lack of proper feed, water or care, it is difficult or sometimes impossible to bring her back to a full flow until she freshens again.

Ross HOG & SHEEP House

Farrowing — Lambing — All-Year



Near round roof for sides, heavily braced roof strength. Two partitions ventilators. Length 21 feet. Width 12 feet. Area available.

Galvanized Metal—Strong—Erection—Roomy—Sanitary—Sunlight—Four extra large pens, each with a door. Partitions widely adjustable 12 foot movable. Easily portable.

One entire side glass and in violet illuminated interior. Sulfur at side wall charged light. Canopies—closest and center—easily get at exclusive use warmest spaces protected sanitation and safety against vermin. Healthier pigs and lambs.

Write for prices—As wanted. The Ross Cutter & Co., (Est. in 1850) 518 Warder St., Springfield, Ohio. Makers of Ross Metal—Brooder Houses—Covers, etc.

Free f Asthma Durg Winter

A Remarkable Method that Has Come to the Rescue of Asthmatics and Checks the Winter Attacks—Send Today for Free Trial

If you suffer with those terrible attacks of Asthma when it is cold and damp; if you choke if each gasp for breath was you choke, don't fail to send at once to the very best Asthma Co. for a free trial of their remarkable method. No matter where you live or whether you have any faith in any remedy under the Sun, send for a free trial. If you have suffered for a time and tried what you thought for a best skill known to cope with the terrible attacks of Asthma, if you are discouraged beyond hope, send for this trial.

It is the only way you can ever know what progress is doing for you in spite of all your past disappointments in your search for freedom from Asthma. So send for this free trial. Do it now. This is published that every sufferer may participate in this progressive method and get the treatment free that is now being given to thousands as the greatest boon ever came into their lives. Send for it today. Don't wait.

FREE TRIAL COUPON

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which make a horse wheeze, roar, have thick wind or choke-down can be reduced with Absorbine. Also other blemishes or swellings. No blister, no hair gone, and horse kept at work. It is economical. At druggists, or \$2.50 postpaid.

Horse book 3-S free.

A thankful user says: "Completely removed flesh growth on gland about 7 inches diameter. Sincerely thank you for good advice and Absorbine."

ABSORBINE

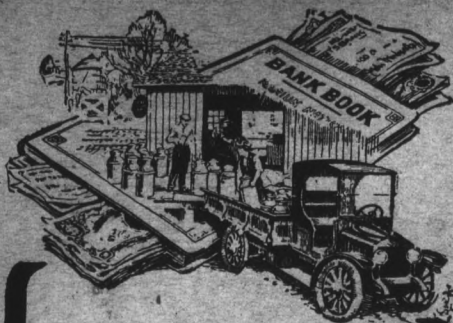
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THE BUSINESS FARMER
MT. CLEMENS, MICH.



Put ALL your cows on a profit basis

Kow-Kare safeguards the health of the whole herd—if fed regularly as a part of the winter-feeding program. Its highly-concentrated ingredients act directly on the organs of digestion, assimilation and reproduction. Cows in fair vigor are made more productive, more profitable. Animals of lowered vitality are built up to profitable productive yields.

Try dairying this winter on this safe-and-sane conditioning plan. Feed each cow with her grain ration a tablespoonful of Kow-Kare for one to two weeks each month. Note the increase in the milk crop—and the freedom from profit-killing disorders. Kow-Kare rationing costs only a few cents a month per cow. The investment returns itself many fold.

Condition your freshening cows

Give every freshening cow the benefit of the Kow-Kare invigorating, regulating action. After once using this famous aid at Calving you will never again be without it. Use a tablespoonful in the feed two to three weeks before and after.

For cows troubled with Barrenness, Retained Afterbirth, Abortion, Scours, Bunches, Milk Fever and similar troubles Kow-Kare is your reliable home-remedy. Full treatment directions on each can. Feed dealers, druggists and general stores have Kow-Kare. \$1.25 for large size; \$6.25 for six cans. Small can 65c. Send for free book, "More Milk from the Cows You Have."

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Lyndonville, Vermont



Fix it at home!
You can fix any lameness—easily while horse works. Use

SAVE THE HORSE

—the old reliable Remedy. **Guaranteed**—full success, or money back. Ends spavin, thoropin, curb, splint, hip, shoulder, leg and foot troubles. The "Symptom" Book, **FREE**, tells how to diagnose and end lameness, with this simple home treatment. Write today!

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340 State St. Binghamton, N. Y.
Druggists can supply "Save-the-Horse"—or, we ship direct, postpaid. No substitute will do as much.

A SMILE OR TWO

GET RID OF IT

The speaker was enumerating in impassioned tones the evils of the day.

"What we want to do," he cried, "is to get rid of socialism, radicalism, bolshevism, communism, anarchism and sovietism."

"And while we're about it," chimed in a weatherbeaten old man, "can you throw in rheumatism?"

COOPERATION

A small boy called on the doctor one evening. "Say, doc, I guess I got measles," he said, "but I can keep it quiet."

The doctor looked puzzled.

"Aw, get wise, doc," suggested the small boy. "What'll you give me to go to school and scatter it among all the kids?"—Bottles.

SLIGHTLY DISCOLORED

Picnicker: "That bull of yours charged at me and tossed me over the fence."

Farmer: "H-mm. Anything red on ye?"

Picnicker: "Well, I couldn't say exactly, but it feels as if there might be."

WHEN IS HE GOING TO START BARKING?



AN IRISHMAN

It must have been an Irish preacher who was vainly endeavoring to impress his congregation with the necessity of more earnest attention to his pearls of thought. He said:

"Trying to impart knowledge to some folks is like pouring water on a duck's back; it goes in one ear and out the other."

A USEFUL ANIMAL

"Chickens, sah," said the old negro sage, "is de usefulest animals dere is. You can eat 'em befo' day is born and after dey is daid."—Ex.

REVERSE PUBLICITY

Amos Skinner, the leading deacon of his church, was chuckling in high glee when he ran into another deacon on the village green.

"Got it at last, by heck," he cackled to his friend.

"What you cal'late you got, Amos?" asked the other.

"Just a little dee-vice, Ezzy, but it's a-going to make me rich. Every meetin' house in the hull county'll want one."

"How you figger that out, Amos?" persisted Ezra.

"Well, it's a patent contribution box. Coins fall through slots of different sizes. Dollars, half-dollars and quarters fall on velvet; nickels and pennies drop on a Chinese bell!"—Everybody's.

NOT ALWAYS, TOMMY

A teacher was telling her class little stories in natural history, and she asked if any one could tell her what a groundhog was. Up went a little hand waving frantically.

"Please, ma'am; it's a sausage."—Perfect Star.



DOING IT THE EASIEST WAY

First Farmer: "I thought you said you had plowed the ten-acre field."

Second Farmer: "No, I only said I was thinking about plowing it."

First Farmer: "Oh, I see, you've merely turned it over in your mind."

BROOKFIELD WYOMING



Brookfield Wyoming, No. 180451, 16-year-old purebred Guernsey of the Larro-fed Argilla Farm herd of S. M. Merrill, Ipswich, Mass. R. J. MacKenzie, Superintendent, feeds Larro to the entire milking herd, including test cows.

ANOTHER splendid milk producer has put her "OK" on Larro Dairy Feed. When nearly 16 years old, Brookfield Wyoming, on a daily ration of 15 lbs. of Larro, headed the Class A Roll of Honor of Massachusetts Guernseys for August, 1927, with a record of 1670.2 lbs. milk, 91.53 lbs. fat in 31 days.

Mr. R. J. MacKenzie, Superintendent, has fed Larro to his regular herd for four years. From six to ten cows are on test at all times and these also for the past year have been fed straight Larro as their regular daily grain ration.

Years of experience and top notch records have convinced Mr. MacKenzie that Larro is the one best ration—that its uniform high quality produces the utmost in health, milk and profit for the feeder every day in the year.

Put your cows on Larro now. Change them over gradually to a straight Larro ration. Be careful to feed enough pounds of Larro as it is very light and bulky. No matter how much cheaper your present ration may be, you'll make more money on Larro, above all feed costs, than with any other ration you can use.

THE LARROWE MILLING CO.
DETROIT MICHIGAN

Larro

FEEDS THAT DO NOT VARY
FOR COWS • HOGS • POULTRY

Raise Your Calves on Larro, Too!

Larro Dairy Feed is a splendid calf ration. It gives calves the body-building materials that bring daily increases in weight and strength. Larro-fed calves grow into good-sized cows with strong constitutions and the ability to produce and reproduce. Feed Larro early. It pays.

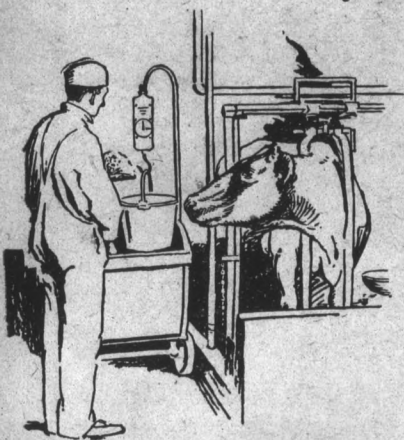


Does Your Winter Ration Meet these Three Needs?

1. Plenty of protein
2. Quality of protein
3. Conditioning value

Now, if ever, feed enough of your grain ration to insure highest profits *per cow*—the way to make most money with least work and invest-

ment. But also be sure your mixture meets these three big needs, by balancing it with the proper quantity of Linseed Meal. Get this free book of practical rations, used by thousands of successful dairymen. Mail the coupon for your copy.



Clip the coupon, send for free booklet.



Linseed MEAL

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Fine Arts Bldg., Milwaukee, Wis.

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Print your name very plainly, and check disorder with which you are suffering.

NERVOUS DISORDERS

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HARDENING OF ARTERIES

High Blood Pressure

Infirmities of Old Age.

HEMORRHOIDS (PILES)

ASTHMA

Difficulty in Breathing

RUPTURE

DAIRY AND LIVESTOCK

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

SELF FEEDERS NOT GOOD FOR CALVES

THE use of self-feeders does not prove to be an efficient method for raising calves, because the calves eat too much protein material. The calves also supply themselves with a ration too expensive for growing animals, and keep too fat.

The dairy department at the South Dakota State College has been running an experiment with self-feeders for calves for three successive years, trying to find out how calves would balance their own ration. The experiment has proved that growing calves are not able to select to the best advantage the proper food for themselves.

The self-feeders used in the experiment contained the following feeds: corn, ground oats and whole oats, oil meal, bran, alfalfa, and the minerals, salt and bone meal. Skim milk was also fed the calves twice each day.

During the experiment with self-feeders, another phase of the business of raising calves came to the attention of the dairy department, for the calves used in the experiment developed rickets. Rickets is due to lack of or poor assimilation of minerals; but, as the calves had plenty of minerals, the department believes the disease was due to poor assimilation of minerals because of the lack of sunlight.

The barn in which the calves were kept is lighter than the average barn, but the sun's rays through glass are not enough. Growing calves need the direct sunlight at least one hour daily.

FEEDING YOUNG PIGS

I have several pigs just weaned and would like to find out the very best way to make them gain. We are on a rented farm and there isn't much place to raise hogs. We had to pen them up in a 14x14 foot pen as they were into everything. Would like to know just what to feed them to make a balanced ration with them shut up. We have to buy feed. Got some bran and low grade flour in place of middlings, as they were out of middlings. Am feeding two parts bran and one part flour with milk and water. If this isn't good will you tell me just why? We have some wheat in the elevator, do you think it would pay to use that instead of buying feed? Would like to know just about how much to feed them three times a day.—Mrs. C., Saranac, Michigan.

IN order to make the above pigs gain as rapidly as possible they should be given abundance of feed and all of the different requirements necessary for rapid growth. An excellent grain mixture for them would be on consisting of one hundred pounds of corn or barley, fifty pounds of oats and fifty pounds of middlings. If you have enough skim milk to feed from two to three pounds of milk for each pound of the above grain mixture the pigs would do especially well. If you do not have sufficient skim milk to feed this amount I would advise the use of

some digester tankage, adding about twenty pounds of digester tankage to the above mixture. It is also quite possible that owing to the high price of corn you would find it more economical to use a larger proportion of oats than is indicated above.

I would not advise the use of bran for pig feeding as it is too bulky and rather laxative for young pigs. Would much prefer to feed them ground oats rather than bran. As to whether it would pay you to feed this wheat or not this year depends upon the comparative prices of wheat and other grains which are available. One hundred pounds of wheat contains eighty pounds of digestible nutrients, one hundred pounds of standard middlings contains sixty-nine pounds of digestible nutrients. The value of a pound of ground oats contains seventy pounds of digestible nutrients, one hundred pounds of corn contains eighty pounds of digestible nutrients and one hundred pounds of barley about seventy nine pounds of digestible nutrients. The value of a pound of nutrients in any of these feeds is about the same. Knowing your local prices per hundredweight of feed you can very readily compute the cost of a pound of digestible nutrients in them and thus determine which is the cheaper feed.

In order to make these pigs gain rapidly they should receive about five per cent of their bodily weight in grain daily or in other words, a fifty pound pig should have above two and one-half pounds of grain daily. If you were feeding plenty of milk it would not require quite this amount of grain. In addition it would be well if you can give these pigs some green feed each day. If you had a small piece of clover or alfalfa near at hand it would be well to give the pigs some each day. If not they could be given access to clover or alfalfa hay in a rack.

In addition they should have access to some mineral matter. Hard wood ashes are excellent for this purpose. Where they are not available I would recommend the following mixture: 45 pounds steamed bonemeal; 20 pounds finely ground limestone; 30 pounds of salt; 5 pounds of sulphur.—Geo. A. Brown, Professor of Animal Husbandry, Michigan State College.

VALUE OF SILAGE

Please tell me the value of good silage per ton? Thank you.—W. G., Grass Lake, Mich.

DIFFERENT people have different opinions as to the value of good silage but most feeding specialists figure it is worth about one-third as much as marketable hay.

Profits are more per head and per pound on good lambs than on inferior ones.

Good milk and plenty of it make fat, tender, juicy lambs which top the market and increase the trade.

At present 85 per cent of the consumers of meat demand choice cuts. These cuts constitute only 25 per cent of the carcass.



CHAMPION GUERNSEY BULL

Registered Guernsey herd sire owned by Clem Chalker, of Shiawassee county. He was winner of a first prize and was grand champion at the Shiawassee county fair in 1926. Heads a herd of twenty.

Veterinary Department

Edited by DR. GEO. H. CONN

(Questions gladly answered free for paid-up subscribers. You receive a personal letter.)

ONE QUARTER DRY

I have a young cow, just fresh, with second calf, that is dry on one quarter. What could have possibly caused this and is there a cure for it? This cow milked on all four quarters before freshening this time and she gave nice flow of milk up to the time that she went dry. She has never been sick or showed signs of any disease. Is T. B. tested and to all appearance is in good health.—H. H., Eu Clair, Mich.

THIS is due to some injury to the nerves that supply this quarter of the udder; the only thing that would be likely to bring the milk to this quarter would be to massage it well after each milking with ammonia liniment and to milk it for a while just as if it was giving milk; if this does not accomplish this there is nothing that can be done.

LUNG WORMS

I recently lost a fine 4 year old ewe. Did not seem to thrive all summer. A post mortem examination by a veterinary revealed the following condition; small hairlike worms in lungs, a softened brain and some nodules on intestines. Veterinary believed the lung trouble was the cause of the death, the brain softening from the fever.—Subscriber, Stanton, Mich.

I THINK this ewe has lung worms; this is commonly spoken of as verminous bronchitis. It is taken up usually in the pasture and affects the young mostly. Do not use the same pastures again next year. If you find any affected animals remove them from the flock at once. I do not think you will need to sell the flock if they are in good condition in all other ways. There is no satisfactory treatment.

WOODEN TONGUE

What can I do for a young cow that has had her first calf that has what seems to me to be gastrorrhea? She is on grass and when she lies down and chews her cud she loses a lot of the cud and a pool of greenish saliva or gastric juice forms on the ground, along with a lot of partially chewed cuds under her mouth.—A. Brandt, Moorcroft, Wyo.

I THINK there is a possibility that you are wrong in your diagnosis; this may be wooden tongue or actinomycosis. Examine this cow and see if her tongue is not stiff and hard. Then again it might be a ranula or filling under the tongue or it could be paralysis of the throat. My first named condition I rather think will be right. If this is true give this cow a dram of potassium iodide night and morning in some water as a drink or mix with a small amount of grain. It takes 4 to 6 weeks to affect cure.

(Editor's Note: Word has been received from Friend Brandt advising Dr. Conn was right and by following his instructions the cow is almost well.)

RING BONE

I have a 12 year old mare that had a ring bone start last spring. It has been blistered three times but it seems to do no good. Can you tell me what to do?—M. C., Gaylord, Mich.

I DO not know of a single thing that is likely to help this condition in this mare; the usual treatment is a blister and you seem to have done a good job of it. You might get Gumbaults Caustic Balsam and try it. If the druggist does not have it he can get it from The Lawrence-Williams Co., Cleveland, Ohio.

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.—(Adv.)

Announcing the New De Laval 50th Anniversary Separators

FIRST in 1878

Improvements

Golden Color. These new 1928 machines are finished in beautiful gold and black colors, which are pleasing, durable and practical.

Enclosed Gears. All gears on the "Golden Series" are completely enclosed and protected, insuring maximum durability.

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

Turnable Supply Can. A novel feature every separator user will appreciate. Permits bowl and covers to be removed or put in place without lifting the supply can from its position.

Easier Turning. The "Golden Series" machines are easy to start and turn, requiring the least power or effort to operate for the work they do.

Oil Window. Shows at a glance the amount and condition of the oil and whether the separator is being properly lubricated.

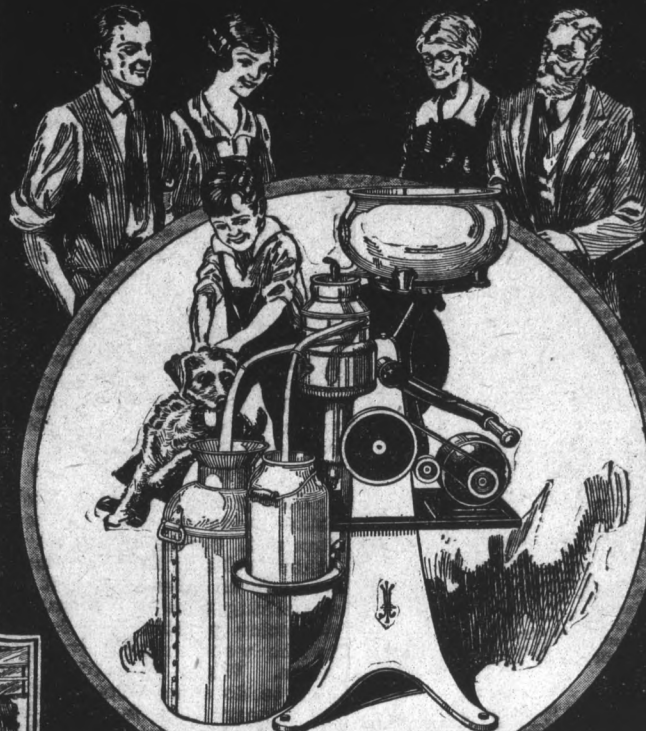
Floating Bowl. The finest separator bowl ever made. Self-balancing, runs smoothly without vibration, with the least power, skims cleanest, delivers a smooth, rich cream, and is easy to take apart and wash.

**The De Laval Milker**

A great companion to the De Laval Cream Separator—equally useful and efficient. Now milking more than one million cows in all parts of the world. Milks faster and better than any other method. Pleasing to the cows and produces clean milk. Simple and durable, does not require adjustment, and easy to operate. Makes dairymore pleasant as well as more profitable. Outfits for from 5 to 500 or more cows. Sold for cash or on self-paying terms.

New De Laval's Now on Display

The "Golden Series" Separators are now on display by De Laval dealer-agents, who will gladly show their numerous improvements and refinements. See and try one of the "Golden Series," or write to your nearest De Laval office for catalog and full information.



BEST in 1928

DR. DE LAVAL'S invention, in 1878, of the first continuous discharge centrifugal cream separator, was the foundation of modern dairymore and has done more than any other one factor to develop the dairy industry into the largest and most profitable branch of agriculture.

First in the beginning, the De Laval has kept in the lead ever since. Practically every detail of separator construction has been De Laval originated. As De Laval features have been imitated, further De Laval improvements have been made. Four million De Laval machines have been sold the world over. They have always been the standard by which cream separators were measured.

Now the 1928 "Golden Series" De Laval machines mark another step forward. In a word, they are the most complete, efficient and beautiful cream separators ever made. They are all that could be hoped for in such a machine. They must prove a source of pride as well as profit to every owner.

The De Laval Separator CompanyNEW YORK
165 BroadwayCHICAGO
600 Jackson Blvd.SAN FRANCISCO
61 Beale Street**BREEDER'S DIRECTORY**

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 square line per insertion. Fourteen square lines to the column inch at \$4.20 per inch, less 2% for cash if sent with order or paid on or before the 4th 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.

Feb. 15.—Holsteins and Guernseys—C. J. Wright, Sales Mgr., Marcellus, Mich.

CATTLE**GUERNSEYS**

GUERNSEY DAIRY CALVES, BOTH SEXES, practically pure bred. Shipped C. O. D. LAKEWOOD FARMS, Whitewater, Wis.

HEREFORDS**88 Hereford Cows**

Big wide back kind, dark reds, dehorned. Bred to extra good hereford bulls to calve about April 1st. Will sell your choice. Also 22 hereford cows with calves and 24 heavy springers. Also other bunches. All T. B. Tested. Also yearling and 2 year old stock and feeding steers sorted even in size and quality.

V. V. BALDWIN, Eldon, Iowa

SHORTHORNS

FOR SALE—ONE ROAN BULL 10 MONTHS old. Sired by Royal Peer 21473, Junior Champion at Indianapolis, Ind., 1919. Dam Mamie Sultan 14439, daughter of Roselawn Hetty, Grand Champion of Michigan, 1919. High class cattle priced reasonable. GEORGE E. BURDICK, Mgr., Branch County Farm, Coldwater, Mich.

HOLSTEINS

Ability to consume large quantities of roughage; regularity in calving; great production; monthly cash returns—these qualities fit Holsteins profitably into all farm programs.

Write for literature Extension Service.

HOLSTEIN-FRIESIAN
ASSOCIATION OF AMERICA
230 East Ohio Street Chicago, Illinois

TWO BULLSNEARLY READY FOR SERVICE
At Pontiac State Hospital

Tag No. 263. Born April 24, 1927, out of a cow with a record of 647.5 lbs. butter in 305 days. Sire by a prize winning show bull.

Tag No. 267. Out of an untested daughter of a cow that made 29.5 lbs. butter in 7 days and 885.9 lbs. butter in a year.

Write for pedigrees and other information.

"MICHIGAN STATE HERDS"
Bred for ProductionBUREAU OF ANIMAL INDUSTRY
Dept. E,
Lansing, Michigan**Complete Dispersal Sale**

of 17 head of Registered Holstein and Grade Guernsey Cattle. 26 head in all. The highest testing large herd in Cass Co.

From 300 to 500 lbs. butter fat per cow.

If interested ask for catalog giving record of each cow.

WEDNESDAY, FEBRUARY 15, 1928

McCLAREY & HERKIMER, Prop.
Dowagiac, Mich.C. J. Wright, Sales Mgr., Marcellus, Mich.
Oscar Burch, Auctioneer, Dowagiac, Mich.

FOR SALE—PURE BRED HOLSTEIN HEIFER and bull calves, shipped C. O. D. at farmers' prices. Best blood lines in America. Write your wants. MAPLE LAWN FARMS, Cortland, N. Y.

(Livestock Continued on page 39)



BAG BALM

Avoid Production Losses

Good management of dairy cows in an effort to get a liberal flow of milk into the udder is lost effort if some nagging discomfort causes the cow to hold back the flow at milking time. Milk thus held back is absorbed by the system—completely lost. Even worse, the cow is likely to form the habit of holding back the milk if the cause is not quickly removed.

You can keep the delicate tissues of the udder and teats soft, pliable, productive by using Bag Balm, the great healing ointment, at the first sign of trouble. For sore teats, chaps, cuts, teats cracked or stepped on, Bag Balm is a quick cleansing healer. Fine for Caked Bag, Bunches, Cow Pox, etc. It quickly penetrates, heals, restores. Pleasant to use—will not taint the milk.

Big 10-ounce package only 60c—at feed dealers, druggists, general stores. Mailed postpaid if hard to obtain locally. Write for free booklet, "Dairy Wrinkles."

Dairy Association
Co., Inc.
Lyndonville, Vt.

MADE BY THE
KOW-KARE PEOPLE

Learn How to Heal Your

RUPTURE FREE

Ruptured people are amazed at the miraculous results of a simple Home System for rupture that is being sent free to all who write for it. This remarkable invention is one of the greatest blessings ever offered ruptured persons, and is being pronounced the most successful self-treatment ever discovered. It brings instant relief and does away with wearing trusses forever.

Thousands who formerly suffered the tortures of steel trusses are now rejoicing in this freedom from the danger and discomfort of rupture. There is nothing like it anywhere and hosts of ruptured persons are astounded at the ease with which their ruptures are healed.

Free trial treatment of this Muscle Strengthening Preparation are being mailed to all who write. It is an original painless Method. No operation, no danger, no risk, no absence from work or play. Send no money; simply write Capt. W. A. Collings, Inc., 133M Collings Bldg., Watertown, N. Y., for free home treatment with full information and it will be mailed you in sealed package.

Send now—today. It may save wearing a torturing truss for life.—(Adv.)

LAKELAND FUR EXCHANGE SALEM MICH.



Ship your furs to us and realize their actual value. No tricky price lists quoting high and grading low here. All furs held separate on request for your approval.



Newton's Compound
For horses, cattle, dogs
Hooves, Coughs, Conditions, Worms. Most for cost. Two cans satisfactory for Hooves or money back \$1.25 per can. Dealers or by mail. The Newton Remedy Co. Toledo, Ohio.

Conviction Necessary to Drive Out Thieves

(Continued from Page 4)

What is more we need the courage to carry out our convictions. Let us illustrate! Over in Shiawassee county at Corunna, to be exact, there was a thief working day and night. He stole nearly everything he could get his hands on, and he lived royally upon chickens, ducks and turkeys, all fed and prepared for him by his neighbors, to which he helped himself all too freely. Many of the neighbors knew this thief was getting away with their poultry and other produce. Some lacked any conviction in the matter whatsoever. Others were very open in their conviction that this thief was a menace to the community, but they lacked courage to carry out their conviction fearing the thief would do them harm later on, perhaps burn a barn, or their house, or something of that nature, but Mr. Ed Follen had the strong conviction that something should be done, and he was not lacking in courage. Today he is \$50.00 to the good, for THE BUSINESS FARMER pays rewards for courageous conviction, and Mr. Thief has been punished and is much less active at his profession. Mr. Follen has rendered a service to his community and we are happy to have paid him a reward for his efforts.

How It Happened

During the month of October good folks living in the neighborhood of Route 2, Corunna, missed chickens, other fowl and farm produce. Losses became so great that it was felt something should be done about it. Suspicion pointed to a family living in the woods near Edward Follen's home. When Mr. Follen had occasion to do some wood cutting of his own near this family's home, he noticed that stumps and logs were filled with chicken, duck and turkey feathers. He was able to identify some of the feathers as those which were formerly worn by seven of his own ducks and turkeys. He had lost many more chickens than this but these were the last group to stray from the chicken coop. Mr. Follen immediately called the sheriff and the man to whom all the suspicion had pointed was arrested. At first he claimed he was innocent but when the evidence became too strong, he confessed his guilt. He was taken before Justice Nellie McBride of Corunna, and now comes the sad part of our story—get ready to cry with us!

Sympathy Lets Thief Off Easy

When this man Weidman was brought before the court, he suddenly remembered his wife and children. While he was doing all the stealing, he apparently had forgotten his fam-

ily but now that prison bars were staring him in the face, he became a good husband and father all at once. Tears poured down his cheeks; he pleaded for mercy for himself and his loved ones so successfully that he got out of his trouble with a \$16 fine and court costs. About the only punishment this man received was a few days in jail awaiting his trial. Far be it for THE BUSINESS FARMER to wish to see any man locked up, but unless our officers and courts take chicken stealing out of the joke calendar and see that proper punishment is given prisoners when they are found guilty, all our efforts to stop this evil will have been in vain. Let a man steal a few dollars from a bank and watch him go over the road with a good stiff sentence—but let this same man steal hundreds of dollars worth of poultry from the farmers and it's more or less a joke—not a real crime, just a lark. How long are we farmers going to stand for such justice? No one felt sorry for Edward Follen or his neighbors who had lost valuable property, but all the sympathy was poured out on this poor man who had stolen the property and suddenly remembered he had been neglecting his family.

In Livingston county chicken stealing is a crime, and dealt with accordingly, and the evil has been stopped to a large extent. Five to fifteen year sentences do not look good to the boys who chase chickens at night with Ford trucks and gunny sacks. We know the good farm folks of Shiawassee county feel that stealing chickens, is a real crime and should be handled as such.

We have been asking for a courageous conviction on the part of our farmers in order to stop this stealing, but now we want to ask of our officers and courts to take on some of this some courageous conviction for a chain is after all no stronger than its weakest link, and unless the chain is complete and the thief gets proper punishment for his crime, there will develop too much of that feeling of "Oh what's the use"—and that would be disastrous to our cause.

Let's give our back-bone an adjustment, buckle up our courage and get some real conviction on this subject of poultry and produce stealing. What could not 100,000 folks do if we were to get a real genuine conviction about poultry thieves? Let's all join hands, farmers, officers of the law and our courts and advance with the tide during 1928, writing into this year a record of real accomplishment, a day of doom for rural thieves.

Predicts Bill Would Have Saved Hog Market

(Continued from page 3)

an excuse for stopping at that point.

President Coolidge did not follow the farmer's hogs to market nor note his need of the \$5.00 per head, which this apparent surplus brought about.

What agriculture needs is called "sales resistency." Concentrated buying power is irresistible against the individuals selling power. Here is the philosophy of the McNary-Haugen plan, namely to provide a body of producers with the price making power and the power built on reservoiring the surplus which may be real or apparent. Large industries exercise this power by reason of their inherent strength and by trade agreements. The McNary-Haugen plan is compulsory cooperation to completeness. Those who hope to accomplish these aims through cooperative marketing may be said to believe that a minority is a potent as unanimous accord. The old rate bill for school purposes was cooperative, the present support by a tax levy is cooperation at its fullness.

If we had been working under the McNary-Haugen plan which President Coolidge vetoed the swine advisory board would have anticipated the 95 million pounds of surplus pork estimated at 10c per pound on the farm or 9 1/2 million dollars and levied an equalization fee on about one and a quarter million pounds of pork. This at 10c per hundred would have cared for this surplus and raised the price

of pork by at least \$2.25 per hundred over the average price for 1927.

To be a little less specific, at the cost of 50c per hog marketed the net gain, would have been \$4.50 per head, and the surplus still to be realized on. But that amount even though the surplus was never sold or given away.

The price of hogs on the farm at \$10.00 per hundred is about in line with the general price scheduled of what the farmer has to buy at the present time. The actual hog price is about 1.08 of prewar at 100 with R. R. rates at 153 and general cost of living at 170.

Looks Like Higher Prices

"It is never safe to prophesy unless you know," but measuring the runs at the large markets and the weights it looks like higher prices for late spring. The high price of feeds sends hog to market on one hand and delay fall pigs finishing on the other.

Advancing beef prices is also a factor that will turn the consumer to the cheaper pork and increase consumption. The best calculations indicate that the slump in hog prices before the up turn will be over \$50,000,000 in the United States. If this were anticipated profits it would not be so bad but it largely unrequited feed and care that the farmer has had taken away, with the "fatalistic" comfort that it was "the law of supply and demand."

Make Extra Money

Increase Your Crops with

MYERS SPRAY PUMPS

SPRAYED crops command top prices—and a few extra dollars spent now for a MYERS Spray Outfit will earn you surprisingly big profits. Decide this year to get the bigger yields and finer quality fruits and vegetables that scientific MYERS spraying brings to you.

A Complete Line of Spray Pumps for Every Purpose

Every type of spray pump from the small hand operated knapsack and bucket types to the large power outfits is yours to choose from in the MYERS Honor-Bilt line. All are remarkably easy to operate, have powerful, penetrating spray, and handle insecticides, disinfectants, whitewash and similar mixtures. As useful in the dairy barn or poultry house as in field or orchard.

Send for the MYERS Catalog

Write today for the MYERS booklet or see the local MYERS dealer. You will find there is a MYERS spray pump to meet every spraying need perfectly.

The F. E. Myers & Bro. Co.
205 Orange St., Ashland, Ohio

Manufacturers of Pumps for Every Purpose—Water Systems—Hay

Tools—Door Hangers

Take Off Your Hat—MYERS

MYERS SELF-CHARGING POWER SPRAY KIG

MYERS COO GEAR DOUBLE ACTING COMPLETE OUTFIT

MYERS PORTABLE SPRAYER

No. 1236 No. R. 316 B

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.)



"SPOHN'S" KEEPS US WELL

When exposed to weather or disease, give SPOHN'S DISTEMPER COMPOUND. For 33 years the standard remedy for Distemper, Strangles, Influenza, Pink Eye, Catarrhal Fever, Shipping Fever, Coughs and Colds. Give to sick and those exposed. Give "SPOHN'S" for Dog Distemper. Poultry raisers! Give "SPOHN'S" for Roup. Sold in two sizes at drug stores. Write for free booklet. SPOHN MEDICAL CO. DEPT. 12 GOSHEN, IND.



ROUGH TRADE MARK ON RATS
THE OLD RELIABLE
DON'T DIE IN THE HOUSE
Refuse Substitutes
Used the world over for generations
E. S. WELLS, Chemist JERSEY CITY, N. J.

WHEN WRITING ADVERTISERS
PLEASE MENTION
THE BUSINESS FARMER

Stop Using a Truss

STUART'S ADHESIF PLAPAO-PADS are entirely different from trusses—being mechanical-chemical applicators—made self-adhesive purposely to keep the muscle-logic "PLAPAO" continuously applied to the affected parts, and to minimize painful friction and danger of slipping.

No straps, buckles or springs attached. Soft as velvet—easy to apply—inexpensive.

For almost a quarter of a century satisfied thousands report success without delay from work. Stacks of sworn statements on file. Process of recovery natural, so no subsequent use for a truss. Awarded Gold Medal and Grand Prix. Trial of "PLAPAO" will be sent you absolutely free. No charge for it now or ever. Write name on coupon and send TODAY.

Plapao Co., 299 Stuart Bldg., St. Louis, Mo.

Name.....

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Free—Trial Plapao—Free

The Experience Pool

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, every day 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.

MILK GOATS

DEAR EDITOR: We have been subscribers to your most valuable publication several years and always find in it so many articles of interest and benefit to us. However, we do not recall having ever read in THE BUSINESS FARMER anything regarding milk goats and their possibilities in Michigan so if you will permit we would like to tell a little of our experience with these remarkable animals.

Milk goats have been popular in California and other western states a great many years where the University of California and New Mexico College of Agriculture have done considerable experimental work with them, the former producing a world champion Toggenburg doe with a record of more than 400 pounds of milk in a year. Statistics show that the milk goat produces from ten to eighteen times her body weight in milk per year whereas a cow produces in a much lower proportion generally. Farmer's Bulletin No. 920 United States Department of Agriculture shows the butter fat content of goats' milk to be about 40 per cent higher than cows' milk. It is not generally known that goats' milk contains nearly 10 times as much iron as cows' milk and that the journal of the American Medical Society states that "goats' milk is superior in every way to that of the cow;" also "goats' milk is the purest, most healthful and most complete human food known."

Contrary to general opinion goats' milk does not have a strong "goaty" flavor or odor. That is as popular a fallacy as the old joke about goats thriving on a diet of tin cans. There is an objectionable odor (to some people) which comes only from the buck during rutting season. He should not be permitted to run with the does. The does are odorless and much cleaner and more particular about their food than cows. In spite of the fact that they are rather dainty eaters they are remarkably easy to keep and we would rather care for a dozen coats than for one cow.

The difficulty has been that there are comparatively few good milk goats in Michigan and city dwellers and others have found it difficult to procure good goats' milk readily. Mr. Frank Helm at Grass Lake, Michigan, has a nice herd and sells milk in Detroit but there does not seem to be many other large herds in this section. When a sufficient supply of goats milk becomes available, people will demand this superior product which men of science have pronounced "the most healthful and most complete human food known."

We hope that we may see articles in THE BUSINESS FARMER pertaining to milk goats as we feel that there is a rapidly growing interest in this class of livestock.—K. Olin, St. Joseph County.

TO CHURN

DEAR EDITOR:—W. C. can find a remedy for non-churning cream by heating the fresh milk to near scalding point. Place vessel in hot water and it will soon heat. Handle milk and cream as usual.

E. E. S., try Save-The-Horse sold under guarantee to cure any lameness. Put up by Troy Chemical Company, Binghamton, N. Y.—Mrs. B. B., Buchanan, Mich.

Color Makes No Difference

Smith: "They say brunettes have a sweeter disposition than blondes."
Black: "Well, my wife's been both and I can't notice any difference."

Long winter evenings will not seem as long or gloomy if a farm lighting plant dispels the early falling darkness.

Profitable marketing really starts in the field with the production of high quality goods.

Camel

The most popular cigarette
in the United States

Quality put it there—quality keeps it there. Camel smokers are not concerned and need not be concerned with anything but the pleasure of smoking.



If all cigarettes were as good as Camel you wouldn't hear anything about special treatments to make cigarettes good for the throat. Nothing takes the place of choice tobaccos.

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Save Money
Without Loss of Quality

33 Years' Success

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ANY SIZE 30 DAYS TRIAL

Don't be satisfied with an inferior separator. You can save money and still have a standard machine. Investigate the low prices now offered on—

As Low As **\$19.75**

Write Now

EMPIRE-BALTIC Cream Separator

ALL SIZES AT FACTORY PRICES

The same high-grade, long-lasting, close-skimming, easy-turning separator sold through dealers for \$3 years. Now shipped direct, anywhere, all charges prepaid, for only \$5 down. Satisfaction guaranteed.

EASY MONTHLY TERMS—FREE PARTS

Any size—large or small—on low monthly payments. Try thirty days; return at our expense if not satisfied. Free parts and service for one full year. You take no risk. Write today for free booklet of exclusive Empire features. Postal will do.

Address—
Empire Cream Separator Sales Co., Incorporated.
1133 Baltic Bldg., Louisville, Ky.

MORE WOOL

FROM SAME SHEEP

Why lose 10% to 15% of your wool by old fashioned shearing methods. The new Stewart ball bearing shearing machine will save you time and labor and give you 10% more wool year after year, from the same number of sheep.

LET US PROVE IT!

Get our illustrated booklet which tells how owners of sheep and goats have increased wool profits by this new method. This book is **FREE** and you will not be obligated by sending for it. Machine pays for itself season after season. Write today!

CHICAGO FLEXIBLE SHAFT CO.
Dept. 131, 5600 W. Roosevelt Rd., Chicago, Ill.

Fords Milker
Electric or Gas Engine



\$100
Single Unit Complete

The Only Milker Advertising Full Price

You know what you'll pay when you decide on Ford's Milker. Complete, ready for milking. Finest construction throughout. Guaranteed to milk as well as any power milker regardless of price. Thousands giving great satisfaction. Sales doubling every year. Cows like it. Delivers clean, premium-priced milk. Easy to operate and clean. Many styles and sizes.

Send for **FREE** booklet, No. 50 on Ford's Milkers. Distributors Wanted—Fine opportunity for merchants and farmers.

MYERS-SHERMAN COMPANY
213 N. Desplains Street, Chicago, Ill.



STOP THIEF!

The Business Farmer Shows Way To Stop Chicken Stealing

CHICKEN THIEVES are taking a million dollars a year out of the pockets of the farmers of Michigan! We are going to do all we can to stop these thieves and want to know if you are going to work with us. In fact, you must work with us if this campaign is to be a success.

Knowing that our rewards can not entirely solve the problem we have given much thought to it and now recommend the following things be done:

1. Put good locks on the doors of all buildings and either bar windows or fasten them shut.
2. Install burglar alarms.
3. Mark poultry with an identifying mark which is registered with poultry dealers, sheriffs, and The Business Farmer Protective Service Bureau.
4. Organize county-wide anti-thief associations.
5. Learn to shoot, and do not hesitate to do so when necessary.
6. Enforce poultry dealers' registration law.

UP TO YOU

These things are what you must do to protect your property! Locks can be bought at any good hardware store. Burglar alarms can be made by anyone who is at all handy and we will gladly furnish free of charge plans and instructions for both the silent and gong type alarms.

THE GONG ALARM

We recommend the gong type burglar alarm which is installed inside the poultry house and makes a lot of noise when released. It is a thief scarer rather than a thief catcher because Mr. Thief will run right out from under his hat when it goes off. Being all inside the coop the thief can not disconnect it so that it will continue to ring until turned off by the owner. If you do not care to make one we will sell you a complete outfit, ready to install, for \$6.50—the bare cost of manufacturing and shipping.

OUR POULTRY MARKER

There are many poultry markers being sold to the public but none of them seem to be entirely satisfactory. Also we found most of them too high in price for the average farmer. So we got in touch with a Chicago manufacturer who guaranteed to make the kind of marker we had in mind, putting a different number on each one so that no two farmers would have the same mark, supply enough special prepared ink to mark a hundred chickens and pay mailing charges to the door of the purchaser for \$1.50 each. We accepted his offer and are selling these at just what they cost us, because we want to serve our readers in every way possible. THE BUSINESS FARMER'S Poultry Marker can be bought only through us as we have the exclusive right to sell it in Michigan.

If you purchase a BUSINESS FARMER Poultry Marker you get a mark—the initials "MBF" combined with a number—which is sold exclusively to you, so that no one else will have poultry marked like yours. It is a simple operation to apply the identifying mark on the web of the fowl's wing and it lasts for the life of the bird. We keep a record of all the markers we sell and supply this record to all poultry dealers and sheriffs in Michigan as well as chiefs of police in the larger cities. Then when a dealer is offered any poultry he can determine at once if it is the rightful owner who is selling it. If it isn't and the party cannot produce a bill of sale from the rightful owner then the dealer can have him arrested and charged with stealing. That means that thieves are going to be careful about taking marked poultry. Order your marker TODAY before your coop is visited. It doesn't pay to lock the barn after the horse is stolen you know.

BUSINESS FARMER'S POULTRY MARKER AND GONG ALARM

TO help the farmers of Michigan protect their property from thieves we have arranged to furnish them with BUSINESS FARMER Poultry Markers (these can be used for other livestock) and burglar alarms of the gong-type at cost. The marker costs \$1.50, including enough special indelible ink for 100 birds, and full instructions on how to use. Extra ink is sold at 35c for 100 birds, 65c for 250 birds, and \$1.00 for 500 birds. The cost of the gong alarm is \$6.50.

Remember, your name and the number of your marker will be registered with poultry dealers and sheriffs in Michigan.

ORDER BLANK

The Business Farmer Protective Service Bureau,
Mt. Clemens, Michigan.

Kindly send to me the following with complete directions for use. I agree to mark all my poultry with Business Farmer's Poultry Marker and will not sell or transfer this marker or allow it to be used except on my poultry or livestock.

Business Farmer Poultry Markers @ \$1.50 each.....

Extra Ink (100 birds, 35c; 250 birds, 65c; 500 birds, \$1).....

Gong-type Burglar Alarms @ \$6.50, each, postpaid.....
(Batteries not included. Three dry cells needed.)

I am including my check or money order for.....

Name.....

Address.....

Number of chickens and other poultry.....



Neat and attractive grounds around farm buildings gives one the idea that the owner is progressive. This is a picture of the home and grounds of Mrs. J. W. Baker, of Lapeer county, who writes, "It was an awful looking place six years ago when we got it but we are quite proud of it now." She also says, "My husband says he doesn't see how he got along without M. B. F. We have taken it two years. We take other farm papers but he never looks at them."

Let's Do Some Landscape Gardening

(Continued from page 4)

pink should not be placed next to yellow, red with blue or purple, and so on. Various shades of one color are desirable together. Try to create a real splash of color in a generous section of the border rather than several in a limited space.

Specimen evergreens and the flowering trees of limited growth have their places in the front yard ("D" on sketch) but not directly in front of the house if it can be avoided. These are fill-ins usually placed well out from the borders, nearly in front of the house corners and perhaps half or two-thirds of the distance from road to house. Thus the eye does not see too wide a break in its sweep to the center of the picture—the home. Arbor-vitae, blue spruce, hemlocks or other symmetrical evergreens may be planted in triangular groups of three, two in front and a taller one to the rear spaced six feet or more apart. Groups need not be the same on both sides or equal distance from the road or border. Exercise "careful carelessness" in placing these or similar groups.

Flowering Trees

Among flowering trees the crabs are exquisite in spring and may be obtained in shades of delicate pink and white. Prunus Triloba, a flowering plum, is a cloud of rose pink to gladden any winter-weary heart and may be planted with Cornus Florida, a flowering dogwood in tree form which blossoms snow-white in spring. All are graceful and should be more generally planted.

Utility and beauty are combined in trees well-placed about the home ("E" on sketch). Probably the ideal planting consists of one or two trees at three corners of the house but, for the front corners, one on each side, slightly back of the corners and twenty to thirty feet toward the borders and one toward the road from each corner about twenty feet and slightly to the side would fulfill requirements. Use trees of quality and fairly rapid growth here. Poplars, box elders and catalpas are better than none but are not included in the list of desirable trees.

Groups of tall-growing shrubs ("F" on sketch) placed towards the borders opposite or a little to the front of points outside the house corners are necessary and desirable because they aid greatly in the general scheme to merge roof lines and the ground in a natural manner. Lilacs, particularly the grafted sort previously mentioned, are unsurpassed here. The Althea, Rose of Sharon, is one of the best with its grace of

line and late summer flowers of red, blue, lavender or white. Any shrub of your choice attaining a height of ten feet or more may be used in a group of three or more to the side. Always group shrubs and keep the spaces between them free of weeds and grass, of course.

The foundation planting is considered last here but it is by no means least in importance. Your house may be modern and beautiful in itself but there is a question as to whether it fully merits the title of "home" unless its lower lines are softened with foliage. A home in a proper setting may have the appearance of having grown naturally in its place—a happy consummation.

In this planting ("G" on sketch) the house corners are first. A nearly circular bed at each corner may contain five or more shrubs of a variety in groups. Usually these are medium tall sorts of which the familiar Spirea Van Houtte is one of the best. The new mock orange, Philadelphus Virginialis, is more than satisfactory in groups. Weigelia, certain deutzias and others may be used if color is wanted. On the north side the list is limited but the spireas and snowberries are reliable in such locations. Between the corners ("H" on sketch) it is good form to use lower sorts with punctuation marks of taller sorts at porch pillars or on either side of the front steps. Besides the dwarf varieties mentioned for the front corners of the yard the golden syringa, Philadelphus aurea is a fine contrasting shrub with spirea or barberry. If you live in a region favorable to the growth of broadleaved evergreens you are doubly fortunate as it greatly increases the pleasing variety of suitable shrubs from which to choose. Shrubs about the home should be planted outside the drip-line of the eaves.

The varieties suggested in this paper are only a part of the long list of desirable things to plant and the list varies with location but the elements of proper arrangement are here: The open-centered lawn, the arrangement of trees, the planted borders and corners and the foundation planting.

Plan your garden now. Let it be an expression of the best that is in you if it requires the balance of your natural life to complete it to your satisfaction.

This is to inform you the account of the Kay Laboratories has been settled in full. Many thanks for your kind efforts. I would not be without your paper for ten times the subscription price.—Mrs. L. B. W., Montcalm County.



You can hardly call this place attractive can you? Yet it would not cost very much or take much time to fix it up. By doing a bit of cleaning up, then applying a little paint and setting out some shrubs you would not recognize it.

FARM INSURANCE

PIONEER STRONG POINTS

Assessments collected in advance, six months or one year, to meet the wishes of the members. No other company makes this concession. Dead beats can't be insured in our company and then sneak out leaving other members to pay their assessments.

We borrow no money and have no interest to pay. Our banks pay us interest on all money in checking and savings account. Our money earned us \$1,127.87 interest in 1927.

On January 1st, 1928, we had \$53,011.28 in the bank, all drawing interest, which was \$16,441.62 more than we had January 1st, 1927. Every loss and all indebtedness was paid. Wonderful gain.

Based upon the last Insurance Department report our company is the fourth largest farm mutual fire insurance company in Michigan.

We have more than \$25,000 in the savings account as a reserve fund. Any farmer should feel mighty lucky to get into this soft nest without having to pay in his proportion to the accumulated reserve fund.

Last year was the worst ever experienced for farm losses, and yet our losses were but \$39,224.79, which was \$9,672.97 less than the year before and \$33,352.43 less than our 1924 losses.

We have a standing reward of \$1,000 for evidence which will lead to the arrest and conviction of crooks who set fire to property insured in the Pioneer Reserve.

We insure our members with a broad and liberal form blanket policy, which brings the insured more money in case of loss, and pay the full amount of insurance named in the policy, and not 75 per cent as some companies do.

We fairly adjust and promptly pay all losses. We pay rural fire trucks, using their apparatus on fires where property is insured with us, \$25 for the service rendered at each fire.

Our rate, Class No. 1 Gold Seal Rodded (\$2.94 per \$1,000) is the lowest blanket policy rate in the United States, made possible through efficient management and aggressive fire prevention activities.

Our risks are classified as to their safety and fire prevention devices maintained, with rates accordingly, which is the only fair, just and equitable plan upon which to buy insurance. Those who are careful and protect their property with fire prevention devices are entitled to the lowest rate.

\$2.94

PER \$1,000 A YEAR

NO POLICY OR ASSESSMENT FEE PAY ONLY ASSESSMENT BIG SAVING TO NEW MEMBERS

Most companies writing farm insurance charge policy and membership fee. We eliminate this charge entirely to those who become members of our Class No. 1 Gold Seal, rate \$2.94. On a \$3,000 policy you will save \$4.50; \$5,000, \$6.50; \$9,000, \$10.50, etc. All we ask you to do is to meet with the requirements of that class and pay ONLY your assessment six months in advance.

Pioneer Reserve has three Rodded and one Unrodded classifications and rates No. 1, \$2.94; No. 2, \$3.26, and No. 3, \$3.76, as follows:

RODDED			UNROD
CLASS No. 1	CLASS No. 2	CLASS No. 3	CLASS No. 1
RATE \$2.94	RATE \$3.26	RATE \$3.76	RATE \$4.00
One fire extinguisher for every \$1,000 insurance—Fire Proof Roofing on Dwellings or Spark Arresters on all chimneys	Fire proof roofing on all roofs on Dwellings, Wings, Porches and Attached Dwellings or Spark Arresters on all chimneys	Shingle roof on Shingles or any Part thereof with no Fire Extinguishers or Spark Arresters on all chimneys	One Fire Extinguisher for Every \$1,000 Insurance—Fire Proof Roofing on Dwellings or Spark Arresters on all chimneys

Unrodded insurance policies written ONLY when dwelling roofing is completely fire proof or spark arresters on all chimneys and one approved extinguisher maintained for every \$1,000 insurance carried.

PIONEER RESERVE MUTUAL FIRE INSURANCE COMPANY

2970 West Grand Boulevard
DETROIT, MICHIGAN

L. A. SIPLE, President

JAMES SLOCUM, Secretary

PIONEER STRONG POINTS

Our business is conducted same as a banking institution, keeping in mind safe-guarding the money of the members, and is highly endorsed by the Department of Insurance, banking institutions and the farm press.

Our Rodded Class assessment has remained the same for four years, without a special assessment and our bank account is growing fast on our exceptional low rates.

We accept only the better class of risk owned by those who take an interest in making and keeping their property safe, and insured for only 75 per cent of the value of buildings as they stand when insured, making due allowance for age, depreciation and condition.

Our members have bought more than 16,000 fire extinguishers with which to protect their property, which have been sold to them at cost, \$1.00 each delivered, guaranteed to last 20 years.

Through the use of more than 8,000 Chimney Spark Arresters, on the chimney tops of dwellings owned by our members, we have been able to reduce chimney sparks on roof fires from \$28,335.40 in 1925 to \$3,773.90 in 1927. Furnished to members prepaid for \$2.26 each.

Fire proof roofing on dwelling or Spark Arresters on chimneys entitles the member to 50 cents per \$1,000 reduction on assessments, and one fire extinguisher for every \$1,000 insurance carried gives an additional 10 per cent reduction. All buildings take same classification as dwelling.

We devote more attention to fire prevention than any other farm mutual fire insurance company in United States and it has resulted in reducing our losses nearly 50 per cent.

New members, finding it a burden to pay up in the company formerly insured, and pay us in advance, will be granted special concessions in the shape of extended credit. Write for particulars.

During the 11 years this company has operated only ten rodded assessments have been called. Average for the 11 years, \$2.41 per \$1,000 per year. The lowest long time average rate ever carried by any farm mutual issuing a blanket policy.

Pioneer members are furnished a 32-page booklet quarterly, containing all information regarding the company, complete financial statements and fire prevention information.

Our plan of collecting assessments in advance is just to all and is the only plan a farm mutual company can endure.

For the past five years we have blazed the trail for better and safer insurance at the lowest possible cost, originating most of the plans upon which we operate so successfully.

JAMES SLOCUM, Secretary:

I am interested in Pioneer Fire Insurance and would be pleased to have you send one of your agents to see me. My property is located in the

Township of _____

County of _____ Section _____

Name _____

P.O. _____ RFD No. _____

SEEDS AND PLANTS

PEACH TREES, \$5.00 PER 100 AND UP. Apple trees, \$7.50 per 100 and up. In large or small lots direct to planters by freight, parcel post, express. Plums, pears, cherries, grapes, nuts, berries, pecans, vines, ornamental trees, vines and shrubs. Free catalog in colors. Tennessee Nursery Co., Box 137, Cleveland, Tenn.

MASTODON EVERBEARING—LESS THAN 1 1/2 c each. Why Buy More? Champion Originator. Catalog Free. Edwin Libke, New Buffalo, Mich.

\$1.00 SPECIALS—200 STRAWBERRY PLANTS: 50 Latham; 100 Cuthbert; 150 Mary Washington; 20 Grapes; 25 Rhubarb. Get growers prices. Harris-Cross Nurseries, Bangor, Mich.

WOLVERINE OATS ABSOLUTELY PURE. color and germination perfect. Very heavy. one dollar bushel, bags free. Freight prepaid, Michigan, on over twenty bushel orders received before March. Checks cashed early March when seed shipped. Satisfaction Guaranteed. A. B. Cook, Owosso, 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, 2-row barley, 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.

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

FOR SALE—CERTIFIED GRIMM ALFALFA seed grown in Alcona County. A. F. Longpre, Curran, Mich.

WOLVERINE DENT SEED CORN—EARLY maturing, heavy yielding and is adapted to conditions of Central Michigan. Circular and sample free. Sunnybrook Farm, R. 3, Dexter, Mich.

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WHITTAKER'S MICHIGAN CERTIFIED REDS. Both Combs. R. O. P. Trapnested. Michigan's Greatest Color and Egg Strain. Cockerels, Chicks, Eggs. Catalog Free. Interlakes Farm, Box 2, Lawrence, Mich.

COFFMAN'S BARRED ROCKS, BREEDING pens headed with males having nineteen years actual trap nest records back of them, 258-310 eggs per year. Cockerels, Eggs and Chicks for sale. Warren Coffman, Benton Harbor, Mich., R. 1.

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. Trapnesting 400 birds under Record of Performance supervision. Reasonable prices for this quality. Write for circular or visit our farm. Asetime Poultry Farm, Comstock Park, Mich.

BABY CHICKS—ROCKS, REDS AND LEGHORN. Each week beginning Feb. 13. All stock bloodtested and Mich. Accredited. Pierce Hatchery, Jerome, Mich.

BABY CHICKS—YOU CAN BUY YOUR EARLY hatched Michigan Accredited chicks right here at home. First hatch January 15. Also booking orders now for spring delivery at special discount. Send for catalog and prices. Brunner-Fredrickson Poultry Farm, Box 80, Holland, Mich.

QUALITY BABY CHICKS FROM STRONG VIGOROUS purebred stock. Have all been closely culled for egg production. Guaranteed one hundred percent live delivery. Write for prices. Address St. Johns and Elsie Hatchery, St. Johns, Mich.

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BARRED ROCK CHICKS, INCUBATORS NOW running. Order chicks early. Cards chicks are better chicks. Chicks, eggs and Breeding stock. Plock under State & Federal Supervision. Phone 4109 Cambria, Leo V. Card, Hillsdale, Mich.

TOWNLINE CHICKS, EGGS, BREEDING STOCK in four leading varieties have made a record of profit performance for thousands of poultrymen that points the way successful for you. Don't fail to get our New 1928 Catalog. Tells how to raise chicks and why our egg blood lines make profits easy. Copy free. Townline Poultry Farm, Route 1, Box 108, Zeeland, Michigan.

BUFF LEGHORN CHICKS AND EGGS FOR hatching. Bred for egg production. Circular Hillcrest Poultry Farm & Hatchery, Bath, Mich.

BABY CHICKS FROM KILBOURN'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. Also Michigan Accredited Buff and Brown S. C. Leghorns. All stock Blood Tested. Kilbourn Poultry Farm, Flint, Mich.

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LOOK! 150,000 CHICKS. 9c UP. 20 VARIETIES. Using many R. O. P. males from 215 to 316 egg breeding. Just what you want for large pens or to improve your flock. FREE catalog gives big discounts. Breeding cockerels, pullets. Lawrence Hatchery, Grand Rapids, Michigan.

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A CHICK IS NO BETTER THAN THE EGG. Our hatching eggs are produced on our own farm. Michigan State Accredited. Belverde Poultry Farm, Mt. Clemens, Mich. Quality not Quantity. Leghorns only.

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PURE BRED WHITE HOLLAND TURKEYS and Pekin Ducks, strong and perfectly healthy. Addressed, stamped envelope for reply. A. Whitcomb, Byron Center, Mich.

EDGEWOOD GIANT BRONZE—LARGE HARDY Northern turkeys. Sire winner at International, son of 1926 All-American grand champion. Mrs. Edgar Case, Benzonia, Mich.

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TOBACCO: KENTUCKY SWEETLEAF, MEL-low; Smoking 5 pounds 65c; 10, \$1.00; 15, \$1.45; Chewing 5, 85c; 10, \$1.50; 15, \$2.00. Pay when received. Kentucky Farmers, Wingo, Kentucky.

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

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

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FOR SALE TO CLOSE ESTATE. 120 ACRES near Three Rivers, Mich. All good level land. Ideal home location. J. O. Schurtz, Administrator, 1935 Linden Ave., Grand Rapids, Mich.

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BARREL OF CHINA. FACTORY TO YOU. Send \$5.50 for 100 assorted dishes, or \$9.00 for decorated. Contains not less than 12 cups, saucers, all sizes plates, oatmeal, sauce dishes, platters, sugar, creamer, etc. Factory imperfections. If freight is over \$1.00 we pay difference. Shipped from our warehouses, Boston or New York. United China, Inc., Dept. 440, Boston, Mass.

WLS SEARS ROEBUCK RADIO STATION broadcasts produce markets at 10 o'clock and noon every day furnished by Coyne and Nevins Co., 1131 Fulton Market, Chicago. Poultry, Veal wanted for premium trade.

COLLECT AND KEEP \$6.00 COMMISSION each sale. 2 suits or suit and topcoat \$27.95. Unusual qualities. Satisfaction guaranteed. Latest patterns. Extra Large outfit FREE. Deal Direct. LaSalle Gold Seal Clothes, 527 Broadway, Dept. 26, New York City.

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Pay Only 1 Cent per Chick with Order

100% Live Delivery Guaranteed. Postage Paid. Write for prices and our 1928 Catalog. Reference: Zeeland State Bank.

For immediate sale 200 Sheppard-Strain Ancona SPECIAL Pullets. Almost matured. Some now laying.

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Pioneer Leghorns

Have been bred for high egg production for many generations. They are particularly well adapted to Commercial egg farms. Their large size and rugged constitution enable them to stand up under extreme conditions. Every male and female inspected by authorized state inspectors supervised by Michigan State College. The free catalog tells all about them.

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Pioneer Leghorns are distinctly Barron strain. Our catalog shows a picture of the pen we imported direct from Tom Barron in England. The males in this pen were out of a 298 egg hen that laid eggs weighing 30 oz. to the dozen and sired by a 301 egg male. The females records range from 259 to 271. This is the foundation you get in Pioneer Leghorns. Many males direct from this pen now head our matings.

WRITE FOR OUR SPECIAL DISCOUNT NOW

Pioneer Poultry Farm, R. R. 10, Box 11, Holland, Michigan

PROFIT PRODUCING CHICKS

ROCKS

LEGHORNS

R. I. REDS

Michigan Accredited Chicks that are bred from proven blood lines. Indicating official approval by authorized state inspectors. Immediate shipment.

BIG DISCOUNT NOW! 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. Get our big new catalog. It is free. It will help you. Your choice of three profitable breeds. 100% live delivery guaranteed.

BRUMMER-FREDERICKSON POULTRY FARM, Box 26, Holland, Mich.

VILLAGE VIEW

Chicks direct from POULTRY FARM

Write today for complete information about our Large English type S. C. White Leghorns and Barred Rocks. Carefully bred strain that are produced to make good winter layers on your farm. Every breeder carefully selected for size and egg production.

Fully 80% of our chicks in previous years have been sold within 20 miles from our Hatchery.

FREE CATALOG GIVES LOW PRICES

Before you order your chicks get this free catalog that tells all about these money makers.

WE GUARANTEE 100% LIVE DELIVERY

One cent a chick books your order. Balance C. O. D. Write today.

VILLAGE VIEW POULTRY FARM R. No. 3, Box 3 Zeeland, Mich.

BUY RECORD OF PERFORMANCE

8 Varieties of Male Matings Up to 316 Egg Record

Also 15 varieties of purebred chicks from selected flocks, including direct Morgan-Tancred 313-egg-record, blood-tested, trapnested White Leghorns. Chicks 9c up. FREE catalog gives big discounts on chicks, hatching eggs, brooders. Don't fail to try our high production quality chicks! We guarantee them to satisfy! **ORDER NOW!**

LAWRENCE HATCHERY Grand Rapids, Mich.

Service PURE BRED BABY CHICKS Quality

100% Live Delivery Guaranteed. Send for Free Catalog and Price List

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
White, Bared and Buff Rocks		7.25	14.00	27.50	67.50	130.00
Single and Rose Comb Reds						
White Wyandottes, Buff Orpingtons						
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THE LANTZ HATCHERY BOX F TIFFIN, OHIO

BOS QUALITY CLASS A CHICKS

From healthy heavy layers of large eggs. S. C. Eng. White Leghorns, Brown Leghorns, Anconas, R. I. Reds, and Assorted chicks at reasonable prices. No money down. Pay full amount 10 days before chicks are shipped or C. O. D. Special discounts. 100% live delivery postpaid. Catalog free.

BOS HATCHERY, Zeeland, Mich., R. 2 B.

MEADOWNOOK CHICKS

WILL MAKE YOU MORE MONEY

Michigan Accredited and Blood tested Barred Rocks chicks. Foundation Stock from Canadian R. O. P. White Leghorns from Tancred Foundations. Have purchased some males from L. C. Beall, Jr., Washington State R. O. P. Breeder for further improvement.

Send for circular explaining matings in both breeds.

MEADOWNOOK HATCHERY Avoca, Mich.

64 BREEDS Most Profitable chicks, ducks, turkeys and geese. Choice, pure bred northern raised. Fowl, eggs, chicks, incubators at low prices. America's great poultry farm. At it 35 yrs. Valuable 100-page book and catalog free.

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Baby Chicks, Fowls, Eggs

68 Breeds fine pure-bred chickens, ducks, geese, turkeys, fowls, eggs, chicks at low prices. 27 years with America's most profitable poultry, tested heavy egg producers. 10,000 prices. Large catalog free.

A. A. ZIEMER, AUSTIN, MINN.

With the Farm Flocks

(We invite you to contribute your experience in raising poultry to this department for the benefit of others. Also questions relative to poultry will be cheerfully answered by experts.)

OAT SPROUTER

SPROUTED oats five to seven inches high make a very good poultry feed. It is an economical means of supplying green food to poultry during the winter months when this kind of feed is apt to be short.

Probably the best method of sprouting the oats is to soak in warm water 48 hours, then put them in the flats of the oat sprouter rack, and to the thickness of one inch, sprinkle with water twice a day. They should be kept at a temperature of around 60 to 70 degrees F. In seven to ten days the oats should be 4 to 6 inches high and ready to feed.

A good grade of well developed oats should be used, and this is usually necessary because the size and vitality of the sprouted oats will depend on the amount of stored nourishment in the oats.

One square inch of feeding surface per bird per day is sufficient to satisfy their appetites. Thus a rack that has seven flats with 4 square feet in each rack will supply green feed for 500 birds throughout winter months.

All the material you will require for the oat sprouter is as follows: 4 pieces, 6-ft. post, 2 in. x 4 in.; 1 piece, 12-ft. braces and caps, 2 in. x 4 in.; 1 piece, 16 back braces, 1 in. x 4 in.; 36 lineal feet, 1 1/2 x 1 1/2 in., slides for flat.

For the flats you will need 56 feet, 1 x 4, for the sides and ends; and 28 board feet 1/2 in. material for flat bottoms.

oil to the dry mash portion of the poultry ration. Roughly, this is slightly more than one pint of cod liver oil to one hundred pounds of mash. This quantity of oil in the mash will provide approximately one-half of one per cent of oil in the whole ration of grain and mash.

BUTTERMILK FOR WINTER EGGS

ALMOST all poultry raisers bemoan the lack of eggs during the winter. Of course, the general conditions brings on market shortage and egg prices climb. In fact, an egg laid in the winter is worth in actual market price two eggs laid in the spring. Since this is true, the added feeding necessary to get eggs during the winter months, returns big dividends.

There is one fact that most poultry raisers overlook. This is that hens cannot lay eggs in winter when given the same feed as in the spring when new sprouts and other food elements are plentiful. To get more eggs in winter there is one rule to remember.

Hens have more work to do in order to lay eggs in winter than any other time of the year. For one thing, feed must furnish fuel for keeping them warm. To manufacture whites, yolks and shells of eggs requires a healthy body supplied with certain food elements which hens naturally pick up in the spring and summer. One of these important food elements, or rather a number of them, have been found to be contained in buttermilk.

COD LIVER OIL HELPS HENS LAY

COD LIVER OIL is an important item in winter rations for poultry because it helps to maintain egg production, prevents lameness, and helps them to lay strong-shelled eggs. It contains vitamins A and D which promote growth and maintain vitality and disease resistance, says the state college of agriculture at Ithaca, N. Y.

Cod liver oil is essential to hens that are closely housed during winter. Vitamin D in the oil is a substitute for direct sunlight, according to poultrymen at the college, who say its use, therefore, is most desirable during winter and early spring when direct sunshine cannot be used or when little is available.

This oil, which is the richest known source of these vitamins, is usually fed for its vitamin D; although vitamin A is present in the oil, it is not so important as vitamin D because yellow corn and leafy green feeds contain enough of vitamin A to meet the ordinary requirements of poultry.

Poultrymen may use the cheaper grades of cod liver oil because they are less expensive and contain the essential vitamins in the same quantity as in the other grades. In feeding cod liver oil during winter and early spring, add one per cent of

Lactic acid, milk proteins and vitamins are easy to supply in the laying mash by the addition of 10 per cent or more of dried buttermilk.

A ration consisting of 25 pounds wheat bran, 25 pounds standard middlings, 30 pounds corn meal, 10 pounds alfalfa meal, 5 pounds bone meal and 15 pounds dried buttermilk has given fine results. In feeding, the laying mash should be kept before the flock all the time and should be supplemented by feeding scratch grain twice a day.

By including the dried buttermilk with the dry mash, poultry raisers overcome the bother of freezing as well as the trouble of keeping that is encountered when liquid buttermilk is fed. Dried buttermilk is easy to keep and easy to feed, yet it supplies the very food elements needed for hens to lay in cold weather.

Many poultry raisers who have provided warm houses and have been disappointed by no increase in egg production, will be surprised by the results given from feeding a good egg laying mash.

Dry buttermilk is now recognized as an important element in the chick's ration, especially for promoting a rapid, healthy growth, and helping prevent many of the digestive disasters that chicks are subject to, including the prevention of white diarrhea.—W. E. Stanfield, Farmstead, Stock and Home.

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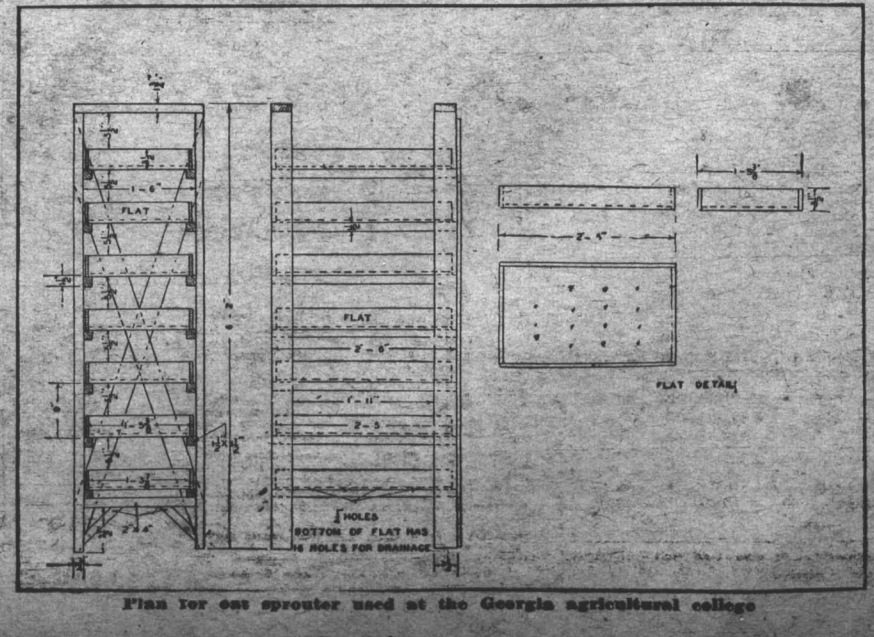
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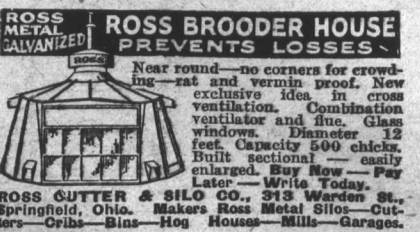
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The Business Farmer, Mt. Clemens, Mich.

HANNAH DISCUSSES POULTRY IN WEXFORD

"POULTRY does not receive the attention on Wexford county farms that it deserves," stated Prof. J. A. Hannah, of M. S. C., at the two-day poultry school conducted at Cadillac January 17 and 18. "Your census figures show that you have about 60,000 birds in the county. This divided equally among your 1200 farms gives an average of 50 per farm. It is very difficult to make a flock of fifty birds pay. It is not an economical flock to handle and it is expensive to house, difficult to properly house and not large enough to warrant much consideration. With properly designed houses and fixtures it is as easy to care for 200 or more as for 40 or 50."

"The poultry business is the third largest agricultural business in the United States. In 1927 the sale of poultry products amounted to \$1,319,000,000. Michigan produced six per cent of this grand total. There is money in the poultry business if you go at it in the right way. If you have a flock of 100 birds and they do not return you an average of \$2.50 per bird over and above the market value of all feeds consumed, whether raised or purchased, there is something wrong with your birds, your house, your feeding or yourself. Many poultrymen secure returns of \$3.00 and \$4.00 over cost of feed per bird under average marketing conditions. The purpose of this school is to bring to your attention facts that will enable you to make the farm flocks in Wexford county better."

"The poultry business is dependent on four very important factors. The success one has with poultry is very largely dependent on the considerations each of these factors receives: 1. Well fed birds; 2, well housed for winter laying; 3, well fed; 4, kept free from disease. "At the present time and during the next few years little if any money has been made in the production of meat. The profit in poultry must be made in the sale of eggs. The sale of meat is of secondary consideration."

"In order to make a reasonable profit on eggs the flock must come into and maintain a satisfactory production from October 15th to November first for the rest of the winter."

"A satisfactory poultry house is one that is comfortable for the birds and healthy. The above conditions can be met if the house is tight on three sides so as to eliminate drafts, is well lighted, well ventilated and easily kept clean."

"In housing birds one should consider the number of birds the building will house comfortably. In general, for the heavy birds four square feet of floor space should be provided while for the lighter breeds three square feet is sufficient."

In determining whether a house is well lighted Prof. Hannah stated "If on dark days the inside of the house is as light as that outside, the house is properly lighted. In general there should be one square foot of glass for each ten square feet of floor space and this should be evenly distributed."

"A poultry house is well ventilated if it is sweet smelling when entered the first thing in the morning. If the strong odor of ammonia is detected additional ventilation should be provided. Litter should keep dry for at least ten days or two weeks. In many well designed houses the litter is changed no oftener than once a month."

"To secure proper ventilation one outlet 14x14 inches reaching to within 12 or 14 inches of the floor and extending above the highest point of the roof should be provided for each 20 feet of house length. Also two inlets should be constructed having dimensions of at least 4 inches by 2 feet each. Glass substitutes have little value here as they are as expensive as glass and cod liver oil must be fed from December 1 to March 30th."—K. Ousterhout.

We think THE BUSINESS FARMER is great and couldn't farm without it.—James Anders, Barry County.

We all like M. B. F.—Mrs. Arthur Wirth, Clinton County.



Hollywood and Tanager Strains and English Type, S. C. White Leghorns. Also Brown Leghorns, Anconas and Barred Rocks. All large type Production Bred Birds. Bred for 15 years for heavy commercial egg production. Every bird individually banded and inspected by an authorized inspector. In breeding up the Famous Townline Egg Laying Strain, we have bred, not for a few high record hens only, but for

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Barred Rocks
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S. C. R. I. Reds

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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.

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S. C. White & Br. Leghorns	\$4.00	\$7.00	\$13.00	\$62.50	\$120.00
B. Rocks & S. C. R. I. Reds	\$4.00	\$7.00	\$13.00	\$62.50	\$120.00

Mixed Chicks \$10.00 per hundred

10% down books your order—100% live delivery prepaid. Get our free catalog. It tells all about our special mated grades. Write for it.

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MARKET FLASHES



Market For Most Grains Generally Firm

Cattle Prices Advance While Hogs Go Lower

By Market News Service, Bureau of Agricultural Economics, U. S. D. A.
(Special to THE BUSINESS FARMER)

THE last half of January shows stronger market conditions following the unsettled and declining tendency of the first part of the month. Recent price gains or recoveries were mostly in grain, feeds, livestock and potatoes. Cotton and dairy products continued weak features as for most of the month.

Grains

The market for the principal grains has held generally firm since the middle of January with oats prices at the highest point on the crop and corn prices holding steady in the face of materially larger receipts. Cash premiums for wheat held firm with offerings of soft winter wheat below market requirements. Rye was also firm and barley was steady although the offerings of the latter grain at some markets were materially larger.

The heavier movement of new wheat from the Southern Hemisphere is now a dominant factor in the world's wheat market situation. World markets, however, are holding steady and offerings are being well absorbed as they arrive in the European markets.

Feeds

High grain prices tended to strengthen the feed market and prices of most feeds ruled higher in spite of the mild weather prevailing over most of the country during the week. Offerings of feeds were readily taken on the whole although a good output of wheat feeds at Buffalo caused a downward trend in wheat feed prices in that market. Feed quotations were fractionally higher at most other points in spite of the increased production. Red dog and flour middlings were relatively dull while liberal offerings of middlings and shorts weakened the market for these feeds. Some operators appeared to be accumulating stocks of heavier wheat feeds against the feeding season later in the spring.

Cottonseed meal continued firm with production of only moderate volume. Gluten feed was again higher with the limited offerings now moving rapidly into consuming channels. Hominy feed was more freely offered and prices declined at most markets in spite of the decline in corn. Alfalfa meal was generally firm.

Hay

The hay markets were generally showing an easier tendency during the week. The firmness which had been apparent in the markets during the past two weeks had given way under pressure of heavier offerings. Demand was moderate and prices tended downward.

Eastern timothy markets were fairly active although supplies were mostly fully equal to, or in excess of, demand. Heavy receipts of alfalfa at certain western markets were readily absorbed with only slight changes in price levels, except for very leafy types which were somewhat in excess of the demand at Kansas City. Large receipts of prairie with extremely limited demand and a large proportion of medium to lower grades among the offerings weakened the market for this class of hay.

Livestock

A well sustained marketward movement of hogs, moderate decrease in cattle marketings, and a rather pronounced decrease in arrivals of sheep and lambs at 11 large primary markets featured the third week of January as compared with the week previous.

Cattle

At Chicago the market for good and choice fed steers advanced early in the week but losses in the sale of the dressed product at eastern consuming centers were subsequently

reflected by material curtailment of shipping demand for such kinds which closed 25 to 50 cents lower than a week earlier.

Hogs

A narrowing price range was shown in the Chicago hog market. The better grades of butcher hogs weighing upward from 160 pounds closed 15 to 20 cents lower than a week previous.

Wool

Wool prices on the Boston market continued to strengthen during the week ended January 21, with price gains more marked and general on woolen than on worsted wools, although both types showed strength. With the more restricted selection of good combing wools and an improved outlet for woolen wools, the shorter, heavier shrinking original bag wools moved much more readily than a few weeks previous. There

cause holdings in cold storage are light and the market responds easily to changes in quantity of fresh receipts varying with the weather. Continued mild weather would be likely to bring a rapid increase of shipments usual in late winter. Otherwise conditions seem favorable.

Poultry

Poultry markets also are supported by a favorable storage situation. Receipts also have been light for some time and prices have remained steady for fully a month past.

Produce

Shipments of southern produce have been increasing and prices declining. Florida oranges and grapefruit were exceptions with higher prices for best stock, although market was unfavorable for the poor quality fruit. Best oranges ranged \$4 to \$4.50 per box and grapefruit \$3.50 to \$4 in central Florida. Haulings of Texas spinach have been increasing since the middle of the month and prices receding from the unusually high levels reached the middle of January. Celery declined at Florida shipping points slightly. New York celery sold \$2.15 to \$2.25 per two-thirds crate. Good tomatoes

all a good price and the buyer will have confidence in the market.

DETROIT LIVE POULTRY

(Commission merchants' gross returns per pound to farmers, from which prices 5 per cent commission and transportation charges are deductible.)

Firm. Hens, colored, 4 lbs. up, 27c; small colored, 25c; leghorns, 22c; cocks, 17c. Springs, 4 lbs. up, 27c; leghorns, 22c. Capons, fat, 7 lbs. up, 35@36c; small or slips, 30@32c. Ducks, white, 5 lbs. up, 27c; smaller or dark, 24c. Geese, 21c.

DETROIT BUTTER AND EGGS

Butter steady; creamery in tubs, 89-90 score, 42@45c. Eggs steady; fresh firsts, 41@41½c.

DETROIT SEEDS

Clover seed, domestic, \$18.50; alsike, \$16.25; timothy, \$2.05.

BOSTON WOOL MARKET

The demand for wool in seaboard markets is less active, but prices are fully maintained, with the tendency still against the buyer. In the west the demand also is less heavy, but prices are tending if anything upward still.

Foreign markets are buoyant and prices decidedly firm both in London and in the primary markets.

The trade is awaiting with interest the initial opening of heavyweight lines by the American Woolen company on Monday.

Michigan fleeces are quoted: Delaine, unwashed, 44@45c lb.; half blood combing, 50@51c; one-quarter blood combing, 51@52c.

MISCELLANEOUS DETROIT MARKETS

SUGAR—Cane, granulated, \$6.30; best granulated, \$6.30; non-caking, \$7.50; XXXX powdered, \$7.50; No. 3, \$6.20.

FURS—Traugott Schmidt & Sons are paying the following prices for Michigan raw furs: Skunk, No. 1, \$3.25; No. 2, \$2.25; No. 3, \$1.60; No. 4, \$1.10. Weasel, white, extra large, \$2.75; large, \$2.50; medium, \$1.60; small, 80c. Red fox, northern, No. 1, large, \$18@21; medium, \$15@17; small, \$10@13. Gray fox, No. 1, large, \$3.50; medium, \$2.50; small, \$1.50.

HIDES—Country buyers are paying the following prices per pound for hides: No. 1 cured, 16c; green, 12c. Bulls: No. 1 cured, 11c; green, 7c; No. 2 hides and bulls, 1c under No. 1. Calf: No. 1 cured, 19c; green, 14c. Kip: No. 1 cured, 16c; green, 12c; No. 2 calf and kip, 1½c under No. 1. Horsehides: No. 1, \$5.50; No. 2, \$4.50.

CATTLE ON FEED JANUARY 1

THE number of cattle on feed for market in the eleven Corn Belt States was 6 per cent smaller on January 1, 1928, than on January 1, 1927, according to the feeding estimate of the United States Department of Agriculture. All States east of the Missouri River had a smaller number on feed than last year, but there was a considerable increase in numbers on feed in Kansas and Nebraska, where the corn crop was unusually large this year.

The estimated numbers on feed January 1, 1928, as a percentage of January 1, 1927, for the Corn Belt States are as follows: Ohio, 88; Indiana, 83; Illinois, 80; Michigan, 85; Wisconsin, 80; Minnesota, 86; Iowa, 85; Missouri, 96; South Dakota, 95; Nebraska, 109; Kansas, 111.

LIVESTOCK MARKETS

Chicago.—Cattle: Meager supply fed steers and yearlings found indifferent outlet at barely steady prices; general quality below average, \$15.50 paid for 1409-lb. averages, some bids unacceptable account for several loads being put away for next week; best heifers, \$12.50 for 677 lbs.; calves, steady at \$12.50@13, but the bulk of the vealers; outsiders paid up to \$15 for weighty kinds; bulls steady, she stock barely steady; stockers and feeders in moderate supply; with fairly active demand, from \$12.50 downward. Hogs: Closed active steady; practically all hogs

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.

were advances in prices at the opening of the London sales.

Butter

Increasing supplies of butter including considerable imported stock have weakened the market without bringing any severe decline. A price around 48 cents is at a level not likely to increase much because it would then pay to import butter, and not likely to decline far until production shows further gain. Storage butter is going into market in a satisfactory way.

Cheese has shown no change in price in for a month past. Prices are higher and production less compared with a year ago. The storage situation is more favorable than for butter.

Eggs

Eggs supplies are increasing at about the usual mid-winter rate but the price has been holding better than might have been expected be-

were bringing slightly higher prices as demand increased.

Potatoes

Potatoes have held fairly steady since the middle of January but advanced slightly at some eastern shipping points. Western producing sections reported a weak tone and dull market.

BEANS

With plenty of applause and encouragement from the farmers bean prices continue to climb upward, having advanced 60 cents within the past two weeks. Sellers are scarce right now as everybody seems to be looking for still more money. Some predict that beans will not be very plentiful until they hit the \$7.00 level. Let us hope that everyone does not unload at once because then the bottom would drop out of the market. Orderly marketing will give

THE BUSINESS FARMER'S MARKET SUMMARY

and Comparison with Markets Two Weeks Ago and One Year Ago

	Detroit Jan. 28	Chicago Jan. 28	Detroit Jan. 17	Detroit 1 yr. ago
WHEAT—				
No. 2 Red	\$1.43½		\$1.41	\$1.40
No. 2 White	1.41		1.38½	1.41
No. 2 Mixed	1.41		1.38½	1.39
CORN—				
No. 2 Yellow	.96		.96	.82
No. 3 Yellow	.94	.88	.94	.79
OATS				
No. 2 White	.61	.55½ @ .57	.60½	.51½
No. 3 White	.59½	.54 @ .56½	.59	.48½
RYE—				
Cash No. 2	1.18		1.15	1.06
BEANS—				
C. H. P. Cwt.	6.65		6.15	4.75 @ 4.80
POTATOES—				
Per Cwt.	2.17	1.40 @ 1.75	2.16	3.00 @ 3.16
HAY—				
No. 1 Tim.	13 @ 14	18 @ 19	13 @ 14	19 @ 20
No. 2 Tim.	10 @ 11	15 @ 17	10 @ 11	17 @ 18
No. 1 Clover	11 @ 12.50	18 @ 19	11 @ 12.50	19 @ 20
Light Mixed	13 @ 14	18 @ 19	13 @ 14	18 @ 19.50

Saturday, January 28.—Wheat steady. Export demand boosts corn. Oats inactive. Receipts light in bean market and everybody sitting tight.

210 lbs. down sold early at strong to 100 higher prices; lighter weights receiving most price improvements; pigs and light lights ruling 15c to 25c higher; top, \$8.30; numerous sales 160 to 200-lb. average at that price; bulk good and choice hogs 170 to 210-lb., \$8.15@8.30; 220 to 210 lbs., \$8.05@8.20; light lights mostly \$8@8.25; bulk desirable pigs, \$7@7.50; best strong weights, \$7.75@7.85; most packings sows, \$7.15@7.50; best kinds under 350 lbs., \$7.60; kinds on butcher order upward to \$7.75 or better; shippers took 20,000; estimated holdover, 6,000. Sheep: Fat lambs fairly active, steady to strong spots 15c higher; bulk, \$13.75@14; top, \$14.25; 89 to 92 lbs. Nebraska lambs, \$13.85@14; good 92 Colorados, \$13.50; bulk, 90 to 96-lb. lambs, \$13.50@13.85; 100 to 110-lb. throwouts, \$12.50@12.75; medium grade medium weight yearlings, \$11; fat ewes steady, \$7.75@8; top, \$8.25; feeding lambs unchanged; packages medium to good, \$12.50@13.10.

Best Buffalo.—Cattle: Steady. Hogs: Steady; mediums, \$8.65@8.75; heavies, \$8.25@8.50; yorkers, \$8.85@9; pigs, \$8.25@8.50. Sheep: Strong; top lambs, \$14.25; yearlings, \$10@12; wethers, \$8.50@9; ewes, \$7@7.75. Calves, \$17.50.

BEAN MARKET SOARS ON SMALL SUPPLY

THE Michigan bean market has been unusually strong of late with almost daily advances in price. The reason may be attributed to the fact that there was no carry-over from a year ago, while the last crop was below the average.

The quality of the crop, however, was excellent with very low moisture content, enabling farmers to retain

their stocks and lessening the possibility of damage while in storage. Indications are that growers have delivered most of their stocks to elevators, and there is not much left on the farms.

The market price today is \$6.65 a cwt., while a month ago it was \$5.30, and may be compared to the price a year ago of \$4.80.

The present situation is somewhat like that of 1922, although the present demand is very good, the belief is that the shortage is not as serious as it was in that year. On Jan. 15, 1922, while the canners' convention was in session at Louisville, the Michigan market was \$4.45, f. o. b. Michigan. By Feb. 1 the price was \$5, and continued to advance until it reached \$9.75, while some sales were made at \$10 per cwt.

This does not mean that the present price should have a similar advance, neither should it be looked upon as an impossibility. The fact is that the market is strong and on a parity with the California prices, with stocks low and the demand very good.—Detroit News.

CROP REPORTS

(Continued from page 2)

blizzard last week. Sun is shining nice now. Temperature around freezing. Quotations from Tustin: Wheat, \$1.20; corn, \$1.10; oats, 55c; rye, 80c; beans, \$5.00 cwt.; potatoes, \$1.10 cwt.; butter, 40c; eggs, 35c.—R. L. C., Jan. 23.

Midland.—Our spring has taken a decided turn, and freezing up. Any amount of high winds from west and north west. Mild weather has done wheat no good. T. B. testing is on in Midland county among cattle. Quotations at Midland: Wheat, \$1.24; corn, 80c; oats, 54c; rye, 98c; beans, \$5.75 cwt.; potatoes, \$1.00 bu.; butter, 47c bu.; eggs, 27c pound.—B. C., Jan. 18.

Newaygo.—Weather somewhat colder than has been for few weeks. Had snow storm on 17th but not enough for sleighing. Cars still running. Farmers mostly doing chores and cutting wood and sitting by fireside. Has been quite a lot of sickness by colds. Has been a good winter on cattle and stock. Has not been cold at all. Poultry going up in price; chickens now are 20c a pound. Chicken thieves still working in some parts and not so bad in others. Quotations from Hesperia: Wheat, \$1.18 bu.; corn, 95c bu.; oats, 48c bu.; rye, 87c bu.; beans, L. Reds, \$6.25 cwt.; potatoes, \$1.45 cwt.; butter, 52c pound; eggs, 38c dozen. E. M. C., Jan. 20.

West Lenawee.—Weather changeable; snow, rain and mud. Farmers at work when possible. Little that can be done. Some moving. Feed scarce and higher. Lots of men out of work as shop and factories have closed. The annual spring moving has started. Quotations at Cadmus: Wheat, \$1.31 bu.; oats, 44@50c bu.; potatoes, \$1.25 bu.; butter fat, 51c lb.; eggs, 40c to 42c dozen.—C. B., Jan. 24.

Jan. 25.



Week of February 5

THE fair weather expected at the end of last week or very beginning of this will rapidly give way to cloudiness and some moderate rain or snow. Temperatures at the beginning of the week will be rising.

During the middle days of the week the sky will clear and as the week draws to a close, temperatures will be falling lower. Readings at the end of this week in Michigan will be somewhat below the seasonal normal.

As the week goes out the weather will become unsettled with more or less strong winds.

Week of February 12

The early days of the week of February 12th will be warm for the season in most counties in Michigan. The sky will be more or less cloudy with moderate rain or snow storms in many parts of the state. The winds will be fresh to strong.

Another storm activity will start about Tuesday or Wednesday but shortly after the middle of the week the sky will clear and temperatures fall. The drop will be marked and readings of zero and below are expected during latter part of week.

The week closes with unsettled windy weather in many parts of Michigan accompanied with light snow.

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(Livestock Continued from page 31)

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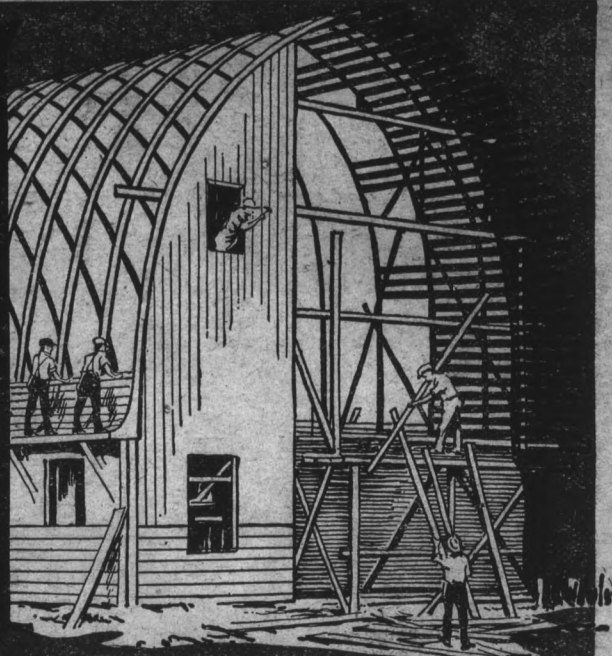
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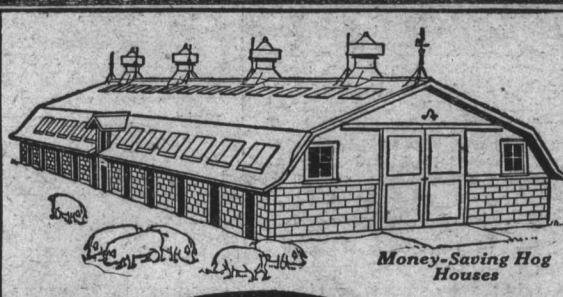
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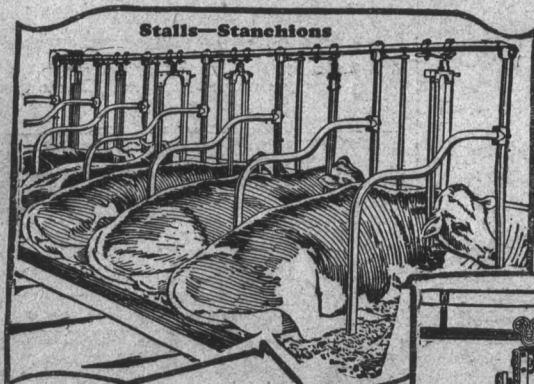
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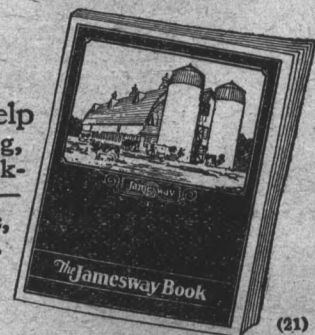
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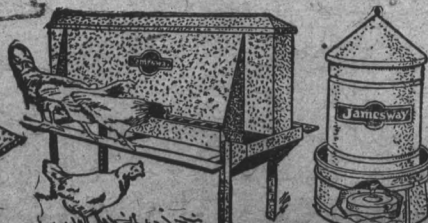
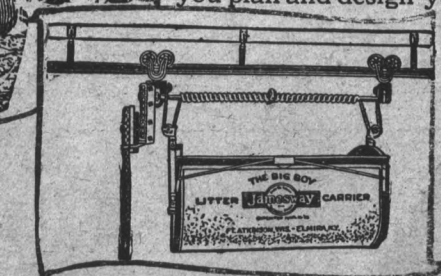


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