

MICHIGAN FARMER

AND
LIVE STOCK
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DETROIT, MICH., SATURDAY, MARCH 5, 1927

Whole No. 4751



The Blackfeet Indians of Glacier National Park. On the Horse is
"Two Guns White Cap" Whose Face is on the New Nickels

A new taste thrill!

THIS way of cooking meats will give them a new taste thrill that will delight your family. Before cooking, spread a layer of Gulden's Mustard over both sides of the meat. Then put on the fire or in the oven. The lively mustard taste and the delicate spices of

Gulden's will spread through every particle of the meat, adding a wonderful, appetite-arousing flavor. Use it to enliven gravies and vegetables.



Write for free Recipe Book to Charles Gulden, Inc., Dept. B-62, 48 Elizabeth Street, New York City.

GULDEN'S MUSTARD

Use it as a seasoning in cooking

Wheel it in—and start milking!

Nothing to install — no pipelines — no vacuum tanks — no special pails

Starting

Milking

Finishing

Clean in 1 Minute
Just Pump Water Through!
It almost cleans itself. No rubber lined teat cups to wash. No pipe lines or vacuum tanks to clean. No pulsator. No extra parts to bother with. No pails to wash—you milk right into YOUR OWN shipping cans. Boon to housewives. Absolutely sanitary.

Gas Engine, Electric or Hand Power

If the power gives out, you or your boy (yes, your 10 year old girl) can pump by hand. A wonderful advantage.

YES, Mr. Dairyman, here it is—at last—the milking machine that solves the dairy problem!—Find out—investigate—get the catalog and special offer now, while this special offer lasts!

Here's your one chance with this wonderfully simple machine to find out on a **REAL Free Trial** what the milking machine will mean for you on your own cows. Why? Because you get this machine and start right in milking; there's nothing to install; nothing to build or fit into your barn; just move the **PAGE** in and start milking. No bother, no expense. Payment only after you've given the milker a thorough trial.

DO SEND for our monster size circular with letters from hundreds and hundreds of farmers all over U. S. A., telling what they know about Page Milkers and what these practical farmers say about the way to use a milker! **Investigate**—Mr. Dairyman. Don't miss this—write for that circular of farmer letters.

down AFTER free trial

Don't pay us a cent **until** you are satisfied that this milker is just right for **your own cows**—No money down—No C.O.D. to us. Just wheel it in and **TRY it thoroughly**—nothing to install. **Then if you are satisfied:**

8 months to pay

—and yet, while allowing 8 months, we give you a **rock-bottom price**, direct from the factory. Also our **iron-clad 10 year guarantee**—yes, 10 years.

Send for complete information on this wonderful milker and the long time payment plan today—**NOW while offer is still open**. Find out **NOW** even though you are not yet ready to buy. No obligation. Write for free catalog **NOW**.

BURTON-PAGE CO. Dept. 4703, 400 No. Michigan Ave., CHICAGO

Please send me your free booklet containing the facts on milking machines and full details of your free trial, easy payment offer on the **Portable Page Milkers**. Also copy of your 10-year guarantee, and your mammoth size circular of letters from farmers telling how they use your milker on their own cows.

Name _____

Address _____

Would you like to be a **FARMER AGENT**? Some farmers have made big money as agents without leaving the farm.

Do you also want our cream separator offer? If you are going to be in the market for a separator any time within the next twelve months, state here about when!

The editors of many leading farm papers know the Page Milker. A leading editor said, "I advise you to investigate all good machines, including the Page offer as per coupon above."

So simple! So very, very simple!

That's the secret of this successful milker. That's why it's so easy to clean; that's why the upkeep is almost nothing; that's why the cows take to it so quickly. A positive stop of all vacuum on each stroke of our simple pump; that's the way for teats and udder! The secret? Our simple, direct air release pump and teat cup—no pulsator, no rubber lined cup. Our catalog explains. **Read it!**

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Thousands of dairymen write us like this:

"The Page Milker is a Godsend. So simple—so sure and easy to use. It can be cleaned so quickly."—W. F. Wolf, Milford, Mich.

"I have used my PAGE Milker twice a day for over two years, and have milked as high as twenty-two cows. I also want to say that your company has given me the very best of service." Yours truly, Albert E. Nelson, R. F. D. No. 2, West Chicago, Ill.

"The PAGE Milker does very good work and is far ahead of hand milking. It lets us out about one hour sooner than if we were milking by hand."—Frank H. Fuller, Orvell, Ohio.

"I still like my milking machine fine. It is giving entire satisfaction. We are milking fourteen cows and have milked in thirty-five minutes. We could not begin to do it without our machine."—Fletcher Peterson, Rt. No. 2, Brownstown, Ill.

"Can milk 6 cows and strip them in 15 minutes. Cows like it better than hand milking. Easy to keep clean. My wife can use it just as good as I can."—Geo. Miller, Rt. 3, LaSalle, Ill.

FREE Book on Milking

"The Page was always a success with me I used it 6 years."—W. R. Olson, Fairchild, Wisc.

"I milk 14 cows in 35 minutes."—Arthur Forrester, El Centro, Calif.

"I am milking 250 cows, and I use 3 of your machines. I highly recommend the Page."—G. Anderson, Lamon City, Mo.

Mr. Dairy Man: Even if you don't want to try out a milker for many months, do write at once for our catalog and get your name on our list for our extra special offer. It costs you nothing and no obligation. Now we **WARN YOU**: write now if you just may be interested in a trial later. We do want you to find out, to investigate—**now**. Learn about the latest discovery in machine milking, get the facts, the figures. See coupon! Don't miss this chance to find out the latest and best news on milking machines.

This offer is **POSITIVELY** for introductory purposes! Void the day we have a dealer, agent or salesman in your neighborhood. So if you don't want to try a milker now, reserve the right for this offer (also for user agent offer right) later—no obligation. Write at once for catalog or you may be too late.

Special Farmer Agent Offer—No canvassing—just demonstrate the milker on your farm. No selling experience necessary. Other dairymen have made hundreds of extra dollars—easily—quickly.

THE McNARY-HAUGEN BILL.

AFTER passing the House by a vote of 214 to 178 in the same form in which it was passed by the Senate, the McNary-Haugen bill was sent to the White House, February 19, and since then the leading question for discussion has been: "What will President Coolidge do with it?"

The support for the McNary-Haugen bill in the House centered largely in the central states. Eleven middle west states gave 114 votes for and twenty against the bill. The states east of Indiana and north of Maryland were equally strong in their opposition, nine eastern states having fifteen votes for and 108 against the proposition. The south was more nearly divided. Fourteen southern states including Maryland and Delaware, gave sixty-five votes for and forty-six in opposition

to the measure. Ten far western states gave twenty-two votes for and seven against the bill.

The congressional delegations from twelve states voted solidly for the bill, and those from eight states against it. Outside of these twenty states, the vote indicates that public sentiment is far from unanimous either for or against the McNary-Haugen bill.

The second annual egg show of Barry county was held for four days in the lobby of the Hastings National Bank. A fine class of exhibits was shown this year.

News of the Week

Francesco de Pinedo, the Italian aviator, flew last week from the Cape Verde Islands off the coast of Africa, to an island off the coast of Brazil, thus being the first to fly across the south Atlantic ocean.

Two Chinese gun boats in the Whan-poo river shelled Shanghai and hit two American homes. The Cantonese troops are making headway toward Shanghai, and the forces of General Sun are becoming demoralized.

President Coolidge spoke to more people via radio on Washington's birthday than were ever spoken to before. His voice was carried practically around the world.

Baron Sakatani, a Japanese peer, is urging the United States to enter the League of Nations.

The federal Mexican troops lost heavily when they were ambushed by the Yaqui Indians.

In the House of Commons in London, England, Colonel Harry Day asked a bachelor tax similar to that used in Italy. He said that 2,000,000 would be subject to such a tax.

Judson Harmon, ex-governor of Ohio, and once almost a presidential candidate, died at his home in Cincinnati, last week.

The chief of police in Tuxedo, New York, has resigned because there have been no major crimes in that town for thirty-five years.

Mr. and Mrs. Washer Laforge, of Mt. Clemens, celebrated their sixty-fourth wedding anniversary on February 22.

There were celebrations in Hawaii when the United States Supreme Court ruling giving the Japanese, Chinese, and Koreans the protection of the American constitution, and permitting attendance of their children at the public schools.

The Centurions, a secret organization opposed to the Volstead Act, has been organized in Chicago.

President Little, of the University of Michigan, is advocating the selection of students, thereby eliminating those who have no serious purpose, and relieving the crowded condition of the university.

Grover Bowersock, a railway employe of Cambridge, O., claims the raw egg eating championship of the world. He ate twenty-four at a sitting, after a hearty breakfast, and then another twenty-four shortly afterward.

Japan has agreed to the U. S. proposal for naval strength limitations. France has refused, while England is still considering them.

Gales and snow and sleet storms have caused considerable damage along the New England coast.

The United States has landed 600 Marines to hold the Nicaragua railroad. There is also talk of this government assuming a protectorate over Nicaragua, thus taking part in the government and stabilizing it.

The Canton, China government, has signed a new agreement with Great Britain, the details of which have been kept secret.

Sweden and Belgium have agreed not to fight each other, even on matters of "national honor" and "vital interests." An influence in bringing this agreement about was the marriage of Princess Astrid and Crown Prince Leopold.

The earned income of the people of the United States during 1926 is estimated by the National Bureau of Economic Research at \$89,682,000,000.

The Indiana Senate has passed a bill permitting the eugenical sterilization of the mentally unfit.

The British government has warned the Russian Soviet government that the Russian trade agreement would be abrogated if communist propaganda in England did not cease.

Evangeline Booth, of the Salvation Army, conducted a revival meeting in Washington which surpassed any recently held there. It was attended by many notables in that city.

DEVOTED
TO
MICHIGAN
VOLUME CLXVIII

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A Practical Journal for the Rural Family
MICHIGAN SECTION THE CAPPER FARM PRESS

QUALITY
RELIABILITY
SERVICE
NUMBER X

Grow Apples and Dairy Products

How Ballard Brothers Handle Their Orchard

By I. J. Mathews

THE Ballard Brothers, of Berrien county, Michigan have a 160-acre apple and dairy farm that is more fertile today than it was forty years ago. And during the last forty years they have specialized in successful farming, but with particular emphasis on Guernsey cows and apples.

Among the apple growing fraternity of Michigan, the Ballard orchard is well-known because in it many of the theories of orcharding, held at various times, have been exploded. And, although the Ballards may be said to have "arrived" as apple men, they spend no time doting on the laurels of the past, they are right up and at present day problems of apple production and marketing.

My first recollection of Ballard influence was about fifteen years ago when the sod mulch versus clean culture argument was raging. The Ballards did then, as they do now, grow all their apples in the sod mulch and in growth of trees and yield and color of apples, the clean culture advocates have not been able to get any solace on this farm. Why this is so, deponent sayeth not. Nor do the Ballards—they merely state that if they had to clean culture their orchard, they would not be able to correlate the dairy herd and the field work as they do now.

When they commenced on the few old trees many years ago, there were many Duchess trees, a variety popular then, but decidedly overworked at present. The Duchess stood them in good stead for a time, but in the spurt of popularity of years ago, many—yes, too many, Duchess trees were planted. At present, Michigan is so loaded with Duchess apples that the Ballards are



How the Ballard Orchard Appeared After a Recent Ice Storm.

seriously contemplating cutting down their trees of this variety.

The bulk of the present orchard they planted themselves, and just how this was done may shed some light on the results which have come out of the orchard every year since. They planted McIntosh between Spies, intending later to cut out the earlier fruiting McIntosh, leaving the Spy, which will never be overdone, because it takes it so long to come into bearing.

First, the ground was planted to alfalfa, then marked off and the soil about where the trees were to be planted was loosened with dynamite. The holes for the charge were made by driving a stake down eighteen to twenty-four inches. Several sizes of charge were used, but finally they got down to a fourth of a stick as the correct charge. This is not enough to scatter the earth all over the field, but just enough to loosen the soil. They could

just see the top soil bulge a bit at the explosion, but when they took hold of the alfalfa crowns, they could pull up four or five feet of root with all the nodules in place. The Ballards believe this soil shattering accounts for the unusual growth the trees have made ever since.

When the trees were young, the alfalfa in the orchard was mowed and forked around them, but now the most of the alfalfa is gone and in its place is orchard grass and blue grass. The plan now is to merely mow the grass and let it lie where it falls. They now use some nitrate on the trees, three or four pounds each.

In orchard technique, these men are experts and they both work at whatever job is to be done, whether it is spraying apples, milking cows, or making alfalfa hay. They spray almost continuously and they have a duster because with it they can cover the ground faster. This is the way their conclusions as to the relative merits of these two methods of treatment were served up to me: "We spray as much as we can and use the duster whenever the weather conditions will permit."

Last spring they tried a unique plan to get the McIntosh blossoms cross-fertilized. Originally they planted the McIntosh and the Spies together, because the McIntosh is a shy setter and they thought the Spies would cross-pollinate them, but when the trees came into bearing, it was discovered that the Spies bloomed later than the McIntosh, hence did not answer the purpose. They had noticed that the bees worked incessantly in the Duch-

(Continued on page 315).

A Successful Farmer School

Clinton Farmers Receive Certificates for Good School Work

By H. D. Corbus

WAS it worth trying? Do they really want it? Will they come out for it? These were the questions the extension department of the Michigan State College men asked when the plan of a winter extension course for the farmers around St. Johns was requested. The answer, yes, can be written in bold-face type. The extension department has one more problem on its hands.

Tuesday night, February 15, Commissioner of the State Department of Agriculture, H. E. Powell, passed out certificates of award to sixty-six Clinton county farmers. These have been in regular attendance at an extension school in animal husbandry held in the Agricultural Department of the St. Johns High School. Prof. George A. Brown, of the Michigan State College, gave the course, which consisted of six meetings, one night a week for six weeks. The subject matter for this course consisted only of hog and sheep care. The class chose these subjects as the one of greatest interest now in Clinton county. This choice bears out Clinton county's place in the production of these products, but one or two counties exceeding shipments from this county. The class met at eight o'clock and it was seldom earlier than

11:30 before Professor Brown got away to return to East Lansing.

Commissioner Powell, in his closing remarks, before he presented the men with their certificates, said: "I don't know when I have done anything that has given me more pleasure and satisfaction. This is even more than we hoped, when, as a committee member of the State Legislature I worked for some short courses at Michigan State

College and later assisted in the extension program. This is a very hopeful sign for future agriculture in Michigan."

Mr. Powell congratulated the men on their opportunities for getting such courses. He also assured them that the department of agriculture was their organization, and that all it could serve would be welcome at all times.

The closing of the animal husbandry

course with a simple program marks the completion of the second extension course given by the Agricultural College in cooperation with the agricultural department of the St. Johns High School. When the first idea of such a course was brought up there was much difference of opinion and not much encouragement. Questions of various kinds were asked in the spirit of investigation. No one seemed to know just what would be the result.

The educational department of the college was called into consultation. Finally, after several conferences and committee meetings, and much pavement and automobile tires were worn off between St. Johns and East Lansing, the school was granted.

Prof. B. A. Walpole met with the men from the St. Johns High School, and the first course was organized. Fifty men filled out enrollment blanks for the first course. One week after this the attendance jumped to eighty-eight. The first course, dairy husbandry, was completed with an average attendance of better than sixty. Fifty-two regular students completed their first college course and were awarded their certificates in dairy husbandry. Professor

(Continued on page 315).



Hon. H. E. Powell, Commissioner of Agriculture, Recently Passed Out Certificates of Awards to these Clinton County Farmers.

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DETROIT, MAR. 5, 1927

CURRENT COMMENT

The Country M. D.

THE shortage of doctors in rural towns throughout the country is a matter which is engaging the attention of the U. S. Bureau of Education. "Owing to the rapid growth of our urban population, there has been a tendency on the part of the medical graduates to practice in the cities," says Dr. W. C. John, specialist in education. "The result is that the rural towns and country districts are experiencing a shortage of physicians, particularly of the general practitioner type. Furthermore, the greatly increased cost of medical education has tended to debar students from the rural districts. There is a tendency on the part of the medical schools to be recruited from the young men of the city whose interests do not naturally lean toward rural practice."

The bureau of education holds that one of the big rural life problems is to devise a method whereby the people of the open country may have adequate medical service.

The Sugar Beet Program

AS we plan the crop program for 1927, careful consideration should be given to the place which sugar beets will occupy. This ought to be especially true in the light of the vast amount of over-production talk that has accompanied the discussions on the McNary-Haugen surplus bill.

The United States now consumes annually over five million tons of sugar. Of this amount Michigan, although the second state in the production of this crop, produces but a relatively small fraction of the sugar used by our people.

Following the experiences of last year, when weather conditions became such a large factor in the handling and the returns from this crop, farmers

are apt to give it less consideration than it deserves.

The fact that Michigan has the right type of soils, favorable climatic conditions, ample factory capacity, and the farmers can know ahead the price they are to receive, makes the beet crop one that could be accorded a larger place in the program on a large number of farms. At least, this is the conclusion reached by a number of thoughtful farmers.

By increasing the attention given to sugar beets, these men feel they automatically improve the situation with regards to those other crops which are produced in excess of American demands. Thus, two objects are gained—we maintain the gross production of our farms, and, at the same time, relieve the pressure of supplies on the markets of other crops by the substitution of sugar beets.

Watch Your Pocketbook

THINGS have not been going quite as brisk in the cities as usual. As a result there is a large group of people who have been getting easy money through the sale of real estate, stocks and bonds, but who now find themselves without adequate income. These men are therefore turning their attention to farming communities, where they find it easier to dispose of their wares.

Some of these people are undoubtedly acting in good faith, and intend to deal honestly. Many, on the other hand, are taking advantage of the farmer's lack of information as to the present and probable future value of the properties they have for sale. And it is difficult to know always whether you are dealing with one who will serve you well, or who will treat you ill. So beware.

The President Takes Stand

BY vetoing the McNary-Haugen Farm Relief bill, President Coolidge has taken a stand which may be far-reaching in its effect. He is on record for farm relief, but apparently the provisions of this bill were not satisfactory to him.

While this action on the part of the President was expected, it must be a disappointment to the rural population of some of the states of the Union,

especially the one-crop states in the middle west.

While Michigan went on record in favor of this new McNary-Haugen bill, the farmers of this state have not had the intense interest that those in other parts of the country have. In fact, there are quite a few Michigan farmers who were not favorable to "the cod-liver oil legislative treatment" attempted at Washington, as stated in A. M. Brown's comments on the agricultural situation on another page of this issue.

The political consequences of the President's action will undoubtedly mean the activity of the mid-west agricultural political group with views on the next presidential campaign. The agricultural economic consequences of his action are that legislative farm relief has again been postponed. In the meantime the farmers will have to do for themselves what they can to solve these agricultural problems.

A Musical Nation

A MUSICAL survey of the United States has been completed by the Cincinnati Conservatory of Music. From this survey it appears that one-third of all native born Americans either play some musical instrument or can sing, and also that scarcely a home can be found without an instrument for producing music of some kind.

This is encouraging. The more love we have for music, the greater will be the spiritual development of the nation. Nearly all the great musicians obtained their first inspiration in their homes. We may well expect the present interest in this art, as shown by the universal demand for pianos, violins, phonographs, and radios in the homes, to result in much greater strides toward musical appreciation in the years to come.

One's Personal Qualifications

THE article which appears on page six of this issue may be overlooked by some readers because the title may not appeal to them. Many who have no thought of approaching their banker to borrow money, undoubtedly, would gain much valuable information from the discus-

sion of personal qualifications in that article.

In making an estimate of one's personal qualifications, he must first of all have the ability to apply his powers of introspection. That is often a hard thing to do. It is usually easier to enlarge on one's own good qualities and to criticize others, than it is to view these matters in a frank and honest way. It really is difficult to be unbiased in matters of this sort, and to judge one's self correctly, since we are too close to the subject matter to get a proper viewpoint.

However, personal qualifications are the largest factors in our relation to the outside world. One may have many good qualities and still have a single trait that proves a big handicap. Every person ought, therefore, to make a serious effort to eliminate such traits.

The article referred to ought to be read carefully, and then the reader should ask questions about himself. It may be a profitable experience for one to score himself as a banker or other person might do. A study of personal traits as related to one's success in farming, is quite certain to be time profitably spent.

Viewpoint

THE other day Mrs. Jones' husband's hired man told Sofie's cousin's husband I was one of the biggest fakes going. He said I thought I was the hull cheese since I've been writing for the papers, and the stuff I wrote was so punk that I must have something on the papers to make them print it.

Well, that's something. Some folks would call such a thing an insult to their personal prudence, or whatever you call it. But I don't. Maybe if I traded places with the hired man, I'd return the compliments to him. But I just consider it a viewpoint.

You see, a viewpoint is an individual proposition. The point I want to make about viewpoints is that it depends on what's looking from where it's looking to where it's looking. Which means, in plain language, that viewpoints depend upon conditions. For inst.,

I know a fellow who always thinks what other folks do is wrong, until he's convinced it's right. But I know other folks what believe that what other folks do is right until they're convinced it's wrong. Folks seem to like them kinda folks best.

You know, viewpoints is got a lot to do with life. For inst., the man who lives on the hill is got a different viewpoint than the one who lives in the valley. The man who lives on a western ranch can't likely have the same viewpoint as the one waiting on tables in a Broadway cabaret. I don't know nothing about either. So that's why I'm telling you this.

I've seen hired men think lots different after they became employers, because they got a different viewpoint about the hired man proposition.

Old maids is lots more critical in their attitudes than when they was sweet sixteen, or sixteen but not sweet. And married women is got lots different ideas of marriage than before they made their present husbands get on their knees. And married men—well, I ain't saying nothing.

I know a fellow that thinks one girl is the sweetest little Dora ever adored, but the others think she is the worst one that ever dared. And then there's me and Sofie—we ain't got the same viewpoint on lots of things. There's work for inst. I'm a firm believer in economy of work, but Sofie acts as if she has to work hard or something would happen.

So you see, our viewpoints is got lots to do with us. Seems like life is what our viewpoints make it.

HY SYCKLE.

Farm Legislative Committee Meets

THE executive committee selected to represent the various agricultural organizations on legislative matters, held its second meeting at East Lansing, last week. From their deliberations a much better understanding of many rural problems needing legislative consideration has resulted.

One of the matters given a great deal of time was the road tax program. The farmer's real burden in this connection is financing his local road program. This committee finally agreed that much relief would be provided if, out of an increased gasoline tax, one cent of the tax collected on each gallon of gasoline would be returned to the several counties on the basis of the road mileage to be used on township roads.

Another subject of first importance was corn borer legislation. Representatives of the department of agriculture appeared before the committee and reviewed the situation and the proposed method of handling the corn borer clean-up program. The members of the committee felt strongly that the Legislature should provide every reasonable means within its power to make an effective fight against this pest.

Further consideration was given to the trespass bill recently published in these columns. In this connection the members of the committee took a firm position with regard to section four of this bill. They feel that giving the person who occupies the land authority to arrest those found violating the provisions of the bill upon the cultivated or enclosed portion of his farm, would make the measure effective and secure a part, at least, of the protection needed. This bill is now in the hands of the Senate Committee on Conservation, of whom Senator H. S. Karcher is chairman. If readers will take the time to write a letter to Senator Karcher urging his committee to report out this bill as introduced, they will do a real service in helping to bring this proposed measure before the Legislature. Much now depends upon the activity and loyalty of Michigan farm folks in getting behind their senators and representatives at Lansing, urging them to enact into law the various features of this trespass bill.



The Mason-Dansville Electric Line

College Will Make a Careful Study of the Many Ways Farmers Can Use Electricity

By H. J. Gallagher

THURSDAY, February 3, was a red-letter day for a number of farmers living between Mason and Dansville. On that day the Consumers' Power Company closed a main electric switch in Mason and let the current flow over an eight mile electric experimental line that will bring cheer and comfort to these farm homes.

The mere pushing of a button for lights—the annoyance of a kerosene lamp a thing of the past. Five o'clock in the morning, the poultry house is already a place of activity. No need of a lantern for chores. A button is pushed, the pathway to the barn is lighted, another button pushed inside the barn and the last vestige of darkness has gone. The turning of a switch and the cows are being milked. Monday—washday—and a silent, willing slave doing the work, washing, wringing, ironing, pumping water, cooking, running the vacuum sweeper, the refrigerator, and a number of other things.

Sounds like a fairy story, but unlike many fairy stories, it has a possibility of becoming true to a great number of Michigan farmers. The Consumers' Power Company, the farmers between Mason and Dansville, companies manufacturing electrical equipment, and the Michigan State College have united cooperatively to determine the possibilities of using electricity on the farm for productive work, in improving the living conditions, and in raising the standards of living.

There are a number of things to be considered in a program of this kind, and many problems to be solved.

The problem of the power company is to get reliable electric service to the

type of farming is general, with a leaning toward dairy and poultry. Some of these farmers own their farms, many of them are in debt. It is the possibility of using electricity from a productive standpoint so that it will pay for itself, or more than pay for itself, that is of primary importance to these farmers. Only by using electric energy in a productive way

ment to the use of a large amount of current. This rate applies only to the Mason-Dansville test line, and its success will undoubtedly be the basis for the determination of a more permanent rate for different kinds of transmission lines.

This experimental rate was willingly accepted by the farmers between Mason and Dansville that intended hav-

grindstone, cut ensilage and elevate it into the silo, operate the buzz saw and work shop machinery, charge radio and automobile batteries, and perform a wide variety of other services of like kind.

It is not expected that the farmers on the experimental line will immediately invest in all the different kinds of household and power equipment. It is as easy to over-capitalize from an electric standpoint as any other on the farm, and like other farm equipment, the electric equipment should be installed only where the added convenience of financial returns will justify its use.

To conduct the investigational work as planned, equipment will be necessary. The national committee on rural electrification has made provisions with manufacturing companies to supply some of the necessary equipment on a loan basis. The equipment is to be loaned to the college and installed on the farms for experimental and research work. This equipment will be rotated from farm to farm and a study of costs and operations made under the different conditions.

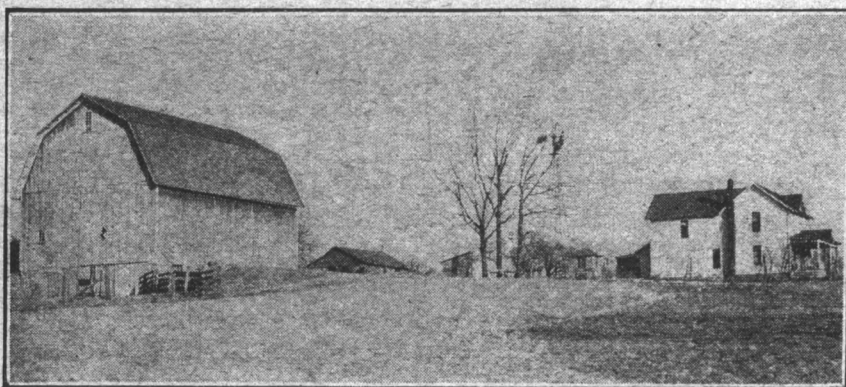
Experimental and research work will be conducted to determine the adaptability of electricity to various uses and processes, and of the possibility of using electricity in new ways with equipment already on the farm and in the designing of new equipment.

In the village of Dansville is a very fine consolidated school. Arrangements have been made to use this school to give a wider scope to the work of rural electrification being done in the community. Demonstrations will be conducted on electrical equipment, supplemented with lectures and motion pictures. It is planned to hold this school one night each week for as long a time as results justify the effort.

It is hoped that the results of this work will prove that electricity can be used in the productive work of the farm at a sufficient saving to offset part or all of the costs that might be attributed to the use of electricity as a luxury.

When electricity is used in sufficient quantities, and pays, or more than pays for itself on the farm, the farmer will become an attractive customer to the power companies, and the high cost of serving the farmers will be better balanced by greater returns. High costs of transmission lines may be of less consideration than they are at present. These conditions will be inductive to the public utilities to extend miles of transmission lines through agricultural communities to serve the farmer. Over these lines will flow the energy that will bring cheer and comfort to the farm home.

Farmers served by experimental line are: John Noxon, Walter Carven, Mrs. P. Aseltine, Coleman & Whipple, Edward Donohue, Arthur Deyo, Mrs. F. Deyo, Ami Terrill, Roy Rae, Ellis Haines, Elmer Bravender, George Bacon, Lloyd Hayhoe.



Lloyd Hayhoe is One of the Thirteen Users on this Line.

will the farmer use enough current to become an attractive customer to the power companies. Electricity used on the farm only for lighting and small household appliances offers too small a return to warrant the power companies investing the great amount of capital necessary in building transmission lines. Some of the transmission lines now serving farmers in Michigan have a transformer core loss of current in excess of the total amount used on the line.

For the farmer to finance the cost

ing service and cooperating in this study. To make their part in the program more effective, these farmers decided to take the initiative and assume their own responsibilities. A committee of three farmers was selected by vote to act as the advisory and executive unit of the community. One of the first problems that confronted the committee was that of wiring the farm buildings. They decided that by wiring all of the buildings with the same kind of material, and contracting the entire job to one contractor, would be a better plan and would result in a less cost than if each farmer hired his wiring done on a separate job basis. The Agricultural Engineering Department of Michigan State College assisted the farmers in planning their wiring layout, in the placing of lights, switches, convenient outlets for appliances, yard lights and power outlets. Complete wiring specifications were determined for each farm.

Contractors submitted bids based on these specifications, and a local contractor was awarded the work. Included in the contract was the provision that the work must pass the inspection of the Electric Engineering Department of the Michigan State College before it was accepted by the farmer.

In carrying out this plan, no unnatural or unbalanced conditions that could not be as readily used by any group of farmers, have been established.

Generally speaking, electricity can be expected to lessen the work and increase the comforts of the home. Besides furnishing light and power for domestic appliances, it will pump water for the stock, milk the cows, cool the milk, separate the cream, run the churn, furnish heat for the incubator and hover, shell the corn, grind the feed, run the fanning mill and the



Arthur Deyo Believes Electricity will Make Farm Life Easier.

farm on a permanent basis at the lowest possible cost consistent with good business.

The problem of the farmer is to learn to use electric energy from a standpoint that will justify his investment. Electricity possesses many values that cannot be measured in dollars and cents, but in addition it must possess a value measured in dollars and cents before it is generally used on the farm.

Manufacturers of electrical equipment have the problem of producing simple and efficient equipment that will fit into farming operations.

The problem of the Michigan State College is to conduct the necessary experimental and research work so that the results obtained may be considered impartial and unprejudiced.

The place to find out how the farmer can use electricity is on the farm under practical working conditions, and the farms that this experimental line should serve, should be average Michigan farms operated by farmers that are dependent upon the farm for their livelihood. This is the type of farming community served by the Mason-Dansville test line. The farms range from forty to 200 acres and the

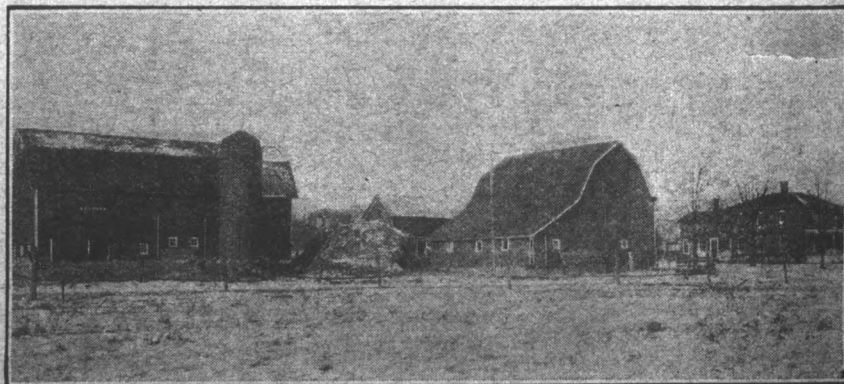
of construction of the transmission line, and then to properly wire his buildings and buy electrical equipment means too large an outlay of capital for this plan to be generally accepted.

A Possible Solution.

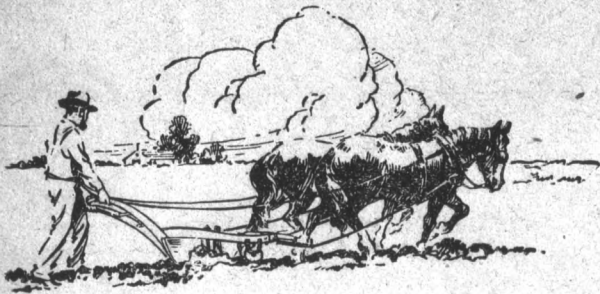
To reduce the high initial cost to the farmer that he may be better able financially to properly wire his buildings and purchase electrical equipment, the best plan seems to be for the power companies to finance the cost of construction of the transmission line and charge each farmer they serve a monthly service charge. In addition to the monthly service charge, the farmer should pay a cheap, simple rate for the current he uses.

In accepting the plan to reduce the high initial cost to the farmer, the Consumers' Power Company filed an experimental rural rate schedule with the Public Utilities Commission. This rate schedule provides for a monthly service charge of \$3.00 to a transformer capacity of 5 KVA, and an energy rate of five cents per kilowatt hour for the first thirty kilowatt hours, and three cents per kilowatt hour for all energy used in excess of thirty kilowatt hours.

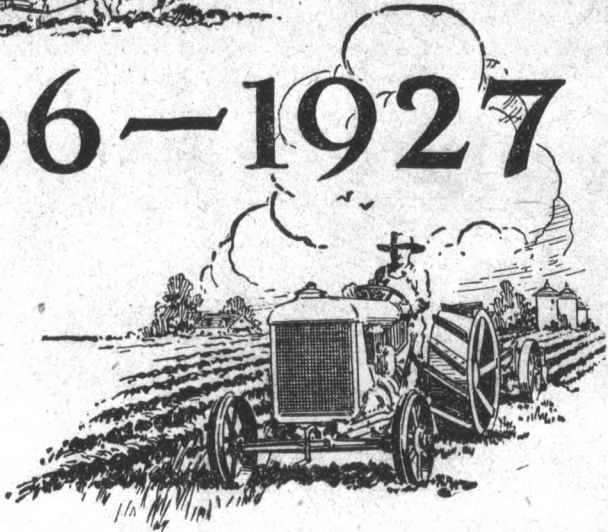
The low energy rate is an induce-



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As Your Banker Might See it

Your Personal Qualifications

By Archer P. Whallon

WHY wouldn't he let me have that money?" is the solemn question many a downhearted farmer has asked himself as he walked empty-handed from the cashier's wicket. Well, there may have been one or several very good reasons, not one of which is an adverse reflection on the moral character of the prospective borrower. But just suppose, Mr. Farmer, before you get to feeling sore, that you place yourself in the banker's place and you will soon see why he is very glad to grant some loans and must reject others. Before you go to the bank, try and analyze your proposition impartially—not considering merely how bad you need the money—but as the banker must look at it—"is it a good deal for the bank?" This examination will do you no harm in case the loan is very good, for it is not enough that you know your proposition is good—but the bank credit man must be convinced of it—he must have some knowledge of you and your affairs. It is up to the prospective borrower to present his application in an intelligent and convincing form, to be a good salesman of his note.

If all loans could be secured by definite tangible collateral, or by real estate mortgages, banking would be a relatively simple matter, but the volume of loans of this class, including quickly convertible security, is so small that small town or country banking would be unprofitable. The country bank must make loans on property security and on the personal qualifications of the borrowers. In the great majority of unsecured loans on farmers' notes, the latter is the more important factor. It is not unreasonable that the banker should desire an intimate acquaintance with the personal qualifications of the borrower; his age, ability, temperament, integrity, industry, mode of living, past record, family and business connections.

Then the banker should give careful consideration to the purpose for which the loan is desired. There is no good reason why the borrower should object to talking this over. It can do no harm and it may prevent a loss. While the banker is not infallible, he usually has had the more extensive experience and has the more mature judgment.

The source, kind, and value of the borrower's assets are an important consideration. The very fact that the

bank's deposits are payable to the depositors on demand, makes it obligatory that the borrower be not only able to pay sometime—but that he can pay the loan at maturity.

A conclusive factor is often found in the conditions of the business or employment in which the borrower is engaged. This includes both general conditions, taking into consideration ordinary reasonable fluctuations and market conditions, of the trade, and the peculiar circumstances of the day, and the special individual circumstances of the borrower's business.

The ability to justly judge human character, and to extend credit on personal qualifications with the minimum of loss and the maximum of profit to the bank, is the distinguishing characteristic of the truly successful country banker. Of course, no banker would knowingly extend credit to a crook who had no intention of ever paying—but how much credit can be extended by reason of the borrower's being absolutely honest? If his honesty is not coupled with ability, it may be insufficient to provide the cash to meet the loan. 'Tis sad but true, the country, including its poorhouses, is full of honest failures who have brought loss to other people. Yet banks are willing to grant credit where the personal qualities justify, though the tangible assets are small, even non-existent. People of ability, industry, and integrity are desirable bank customers, for they will be the successful people of tomorrow. But it is plain that such investments on the part of the bank must be well spread. The farm laborer or renter of good repute with but little collateral security, may expect to find the banker quite willing to loan him small amounts well within his ability to pay—but he can't expect the bank to take too big a chance on him.

The borrower's age is a very important factor, for a man physically unfit by reason of age or infirmity is at a serious disadvantage—particularly on a farm. Here it is necessary for the banker to sometimes "be cruel to be kind." Also, if a man has reached middle life without being successful in anything, the fact is very certain of being taken as an adverse element. There are exceptions to this. There is the man who has been handicapped, but who now has his handicap sud-

(Continued on page 318).

We Never Supposed They Would Sleep Together



About Farm Manure

The Use and Care of a Valuable By-product

ONE of the most valuable by-products of the farm is stable manure and it often represents the greatest waste, due to improper care and handling. We produce in this state alone, about 12,877,000 tons of manure, representing a large amount of plant nutrients. Approximately forty per cent of the value of this material is lost through failure to care for and utilize properly. That we need all of this material is readily seen by the gradual depletion of our soil fertility as shown by decreased yields of many of our important crops. All of this means a decrease in our farm income with a lowering of the standard of living on the farm.

Inasmuch as we have this valuable by-product on hand, we must attempt to lessen the waste and use it to the best advantage in maintaining our soil fertility. With the high price of commercial fertilizers, it is even more im-

portant that the farm manures be used wisely. in the stables and taking up the liquid with the litter. The usual form of litter is grain straw which is already on hand. This is a good absorbent and has a manurial value of about .5 per cent nitrogen, .25 per cent acid phosphate, and one per cent potash. The straw is also returned to the soil as organic matter. Liquid manure may be collected in cisterns, but this is not a common practice in Michigan.

Much of the plant nutrients contained in the manure is held in a readily soluble form. When such material is exposed to rain under conditions such as we find in the average Michigan barnyard, much of the fertilizing value is leached out, being carried away by the drainage water. This loss, due to exposure, has been determined and found to be about forty per cent of the nitrogen, fifty per cent of the acid phosphate, and sixty per cent of the potash. That is, the manure has de-



From Forty to Forty-five Per Cent of Stable Manure is Lost Through Exposure in Piles Like This.

creased in fertilizing value forty to forty-five per cent, depending upon the length of time exposed and the amount of the rainfall.

By allowing the manure to lay in the barnyard in moist, loose piles, rapid decay and heating takes place, which brings about the loss of organic matter and the setting free of nitrogen in a volatile form. The system of handling the manure to avoid this loss is one which will allow the soil to take up the material which would otherwise be lost. Soil will quickly absorb the material leached through, so the efficient system is one which will get the manure to the field each day and spread at once, and as uniformly as possible. In this state, however, there are many days when the weather and the condition of the soil will not permit the use of the spreader. Then, too, when the manure is applied on snow in hilly regions, some of the material might be carried away should the snow go off quickly with a rain, but this loss is smaller than is generally supposed. Inasmuch as there is considerable time during which we cannot get on the soil, we must make additional provisions for caring for the manure. Rainfall must not be allowed to run through, and air must be kept out of the pile to keep down the bacterial activity. This calls for a covered shed with a concrete floor, where the live stock will trample the manure, compacting it to exclude the air. This will eliminate the leaching and the volatilization of ammonia to a large extent.

The loss of ammonia may also be cut down by the use of acid phosphate applied in the stable or thrown on the pile at the rate of about twenty pounds to the load. This makes up for the natural deficiency of acid phosphate in the manure and makes the manure a more nearly balanced plant food. Increased yields amounting to fifty per cent or more, usually result from reinforcement of the manure with acid phosphate.

In the rotation farm manures are usually applied to corn and to potatoes. These crops are ready for the manure early in the spring, thus making it possible to get it onto the soil (Continued on next page).



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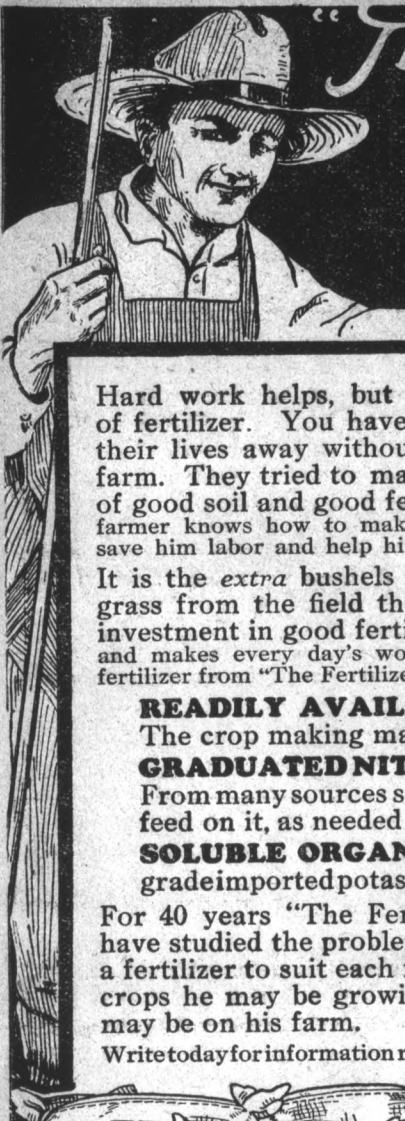
Goodyear makes a tire to suit *you*—whether you want the incomparable All-Weather Tread Goodyear, the most famous tire in the world, or the lower-priced Goodyear standard quality Pathfinder

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GOODYEAR

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"That's the FERTILIZER I Want!"



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READILY AVAILABLE PHOSPHORUS—The crop making material.

GRADUATED NITROGEN (or Ammonia)—From many sources so blended that the plant may feed on it, as needed from seed time to harvest.

SOLUBLE ORGANIC POTASH—From high grade imported potash and ground tobacco stems.

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OUR SERVICE DEPARTMENT

Always Give Name and Address When Sending Inquiries as Satisfactory Service Cannot be Given to Unsigned Letters

TOWN BOARD'S RIGHTS.

If the people vote on a stated per cent for road repair, can the town board use more and spread it in the taxes? Can the town board buy a snow plow without the people voting on it?—W. F.

By Compiled Laws 1915 Section 2,128, as amended by Session Laws 1915 No. 121, the town board is authorized at any regular meeting, to vote any sum necessary for emergency expenses not exceeding in any one year, one-half of one per cent of

essor, he has good title. Otherwise not.—Rood.

ROADSIDE STAND

I own land on M-17 and want to put up a booth. How near to the line can I set the booth? Have I a right to grade the ground in front so that autos can drive up in order to get off the pavement? There is a slight depression to be filled in. I wish this for the sale of our produce.—A.S.

The booth may be set up at the edge of the highway, and the land in the highway may be graded to make

Don't Shoot Muskrats

OUR attention is called to an item in the Michigan Farmer of recent date relative to the trapping and taking of muskrats, and quoting a part of Act 183 of the Public Acts of 1909, as amended by Act 111 of the Public Acts of 1921, permitting the use of a 22-caliber rifle in taking muskrats, and I must call your attention to the fact that Section 2 of Act 111 of the Public Acts of 1921 was amended by Act 89 of the Public Acts of 1925, striking out the provision authorizing the use of 22 rifles in shooting or killing muskrats, so that at this time Act 183 of the Public Acts of 1909, as amended, our fur-bearing animal law, reads in parts as follows:

"It shall be unlawful to use firearms of any kind to kill muskrats or to use baited hooks or to use spears, explosives, chemicals or mechanical devices or smokers of any kind to drive muskrats or other protected fur-bearing animals out of their holes or homes, nor shall any person knowingly have in possession the carcass or skin of any fur-bearing animals herein mentioned, killed during the time when the killing thereof is by this act prohibited, etc., etc."

I hope that you will correct this oversight in your next issue.—D. R. Jones, State Department of Conservation.

the assessed valuation, and may authorize the supervisor and town clerk to borrow not exceeding \$1,000 in any one year to pay expenses, provided that in townships having a valuation in excess of ten million dollars, the board cannot borrow to exceed \$12,500 in any one year.—Rood.

WHAT SHARE?

Wishing to rent a farm with everything furnished, what share should be given? Would like a dairy farm; also modern in regard to furnishing.

The landlord furnishes the land and all personal property and the tenant furnishes the labor. Expenses such as feed, seed, twine, fertilizer and machine hire are often borne in the same proportions as the income, that is, the tenant bears one-third of such expense and the landlord two-thirds.

RIGHT TO INHERIT

I accumulated some property with the help of my first wife. There are no children except one son who ran away at the age of fourteen and who is now married. My first wife died and I married a second time. Six years later my second wife died and I married a third time. My third wife has helped me to save and accumulate more property. Now I am a cripple. I wish to leave all my property to my third wife. Is this boy of mine entitled to any of my property? Please advise.—F.

The right to inherit is not an absolute right. The parent may give away his property either during his life or by will, and the right to inherit extends only to what is not thus disposed of.—Rood.

A SQUATTER'S RIGHTS.

A man built himself a house on a piece of ground about thirty years ago. He did not buy; he was a squatter. A few years ago a party bought all this land around there. Some of it was state land and some had back taxes. Could this squatter claim the place he lives on?—A. D.

Title by adverse possession depends upon possession under claim of right with, open, notorious, exclusive possession for fifteen years or more. All these are questions of fact; and if they are all answered in favor of the pos-

sessor, he has good title. Otherwise not.—Rood.

RIGHT TO SET TRAPS

A works a farm on one side of a county ditch and B works a farm on the other side. This ditch runs on the line between the two farms. Has A a right to set traps on B's side of the ditch? If he has, has B any right to pull up A's traps? Please advise.—Mr. H.

Neither has any right to set traps on the land of the other and if he does so the other may take the trap up.—Rood.

WHO SHOULD PAY TAX?

A. buys 40 acres of unimproved land from B. in Oct., 1926, and nothing is said about tax for the same year (1926). Who should pay the tax—A. or B.?—M.

A quit-claim deed imposes no obligations upon the maker to defend the title. A warranty deed given in October does not bind the maker to deliver title free from liability for taxes which become a lien afterwards. The county and state taxes become a lien from the day they can first be paid, which is December 1st. As between the grantor and the state he is liable on the taxes from the time they are assessed in June.—Rood.

ABOUT FARM MANURES.

(Continued from page 309).

as early as possible. Manure gives decided increases in yield with these crops because of their ability to utilize the large amounts of nutrients without lodging.

Farming as a business on a sound economical basis makes it necessary that all the loss possible of plant food be eliminated. Our soil is our source of income on the farm and it must be kept at a high producing capacity at all times. Therefore, we must adopt a more efficient system of getting the plant food back to the soil. This can best be done with farm manures by using tight stable floors, sheds and hauling to the field as soon as possible. Also the addition of acid phosphate and frequent but lighter applications of the manure make for greater efficiency.

LUMBER BARGAINS



4 ROOMS AND BATH
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SAVE
\$500.00
ON YOUR
BUILDING
MATERIAL
NEEDS



3 ROOMS AND BATH
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New Spruce Wall Board, guaranteed not to warp. Real Bargain. Believe our price is lowest in U. S. Various sizes. Special per 100 sq. ft..... \$3.00

New Oak Flooring, 3/4" x 1 1/2" No. 1 shipped direct to you from leading mill. Freight prepaid to your station, per 100 sq. ft..... \$5.80

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88 Big Stores are brought to you in the Pages of Ward's Catalogue

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A vast furniture store, a shoe store, a men's store, a women's store—each filled with very large assortments of fresh new merchandise—are shown complete in your Catalogue.

Almost your every need is supplied in one of these 88 Departments of Montgomery Ward & Co.

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Do you look through each big store in your Catalogue? Do you look in your Catalogue as you would in the most modern complete store located near to you?

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Oakland, Calif.

Fort Worth



Late sown Fall wheat needs Spring top-dressing—

LIKE many others, you could not get your wheat in until late last Fall and it looks backward this Spring. The yield promises to be a poor one unless you give it some help.

Look at the increased yield these men got when they top-dressed their wheat with Arcadian Sulphate of Ammonia.

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		Without Top-dressing	Top-dressed with Sulphate of Ammonia	Increase
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Rob Lance	Medina, Ohio	17.5 "	25.5 "	8 "
Chas. E. Roller	Springfield, O., Rt 1	23 "	31.6 "	8.6 "
Alphons Brinkman	Ft. Jennings, Ohio	20 "	28 "	8 "
Joseph Brinkman	Ft. Jennings, Ohio	28 "	36 "	8 "
Clarence Kretzer	Defiance, Ohio	19 "	25 "	6 "
Harry L. Kauffman	Carlisle, Ohio	28 "	39.5 "	11.5 "
W. C. Shreve	Wooster, Ohio, R.F.D.	23 "	32 "	9 "
Paul Brunswick	Tyrell, Ohio	19 "	35 "	16 "
Kenneth Indoe	Medina, Ohio, R.F.D.	21 "	32 "	11 "
MacKindig	Seville, Ohio, R.F.D.	25 "	38 "	13 "
Alex Ruen	Ottoville, Ohio	22.8 "	32.2 "	9.4 "
R. M. Dunn	Wooster, Ohio	21 "	27 "	6 "

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SENSATION One of the most productive oats in cultivation. 75 Bushels and upward per acre are frequent with large white meaty grains weighing 44-46 lbs. per measured bushel of the highest quality. Seed furnished as low as 65c per bushel in quantities. You should by all means try these oats. Send for sample and circular.
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Low-cost one-gun outfits for spraying, disinfecting, whitewashing. Sturdy, dependable. Send for catalog today.



BEAN SIMPLICITY SPRAYERS

Delivers 5 1/2 gals. a min. at 250 lbs. pressure. Good work with gun or rods. With or without truck. **Bean Spray Pump Co.**
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Bred with the quality and hardiness for winning yields and bigger profits. All hardy, northern grown, re-cleaned and thoroughly tested. Leading varieties. Alfalfa, Timothy, Clover, Sweet Clover, Oats, Speltz, Wheat, Corn, Potatoes, etc., at the lowest prices, when quality is considered.
59 Years' Service
and our unequalled reputation for quality is back of every pound of Salzer farm seeds. Why not sow Salzer Seed this year and reap bigger yields and bigger profits? Don't shut your eyes to quality—don't waste time, money, labor planting poor seed—remember the Best Seeds Pay Best Profits. Write us at once for our big new 138 page illustrated 1927 Seed Book.
John A. Salzer Seed Co.
Box 176
La Grange, Wis.

10c
\$25 PRIZE
for the Biggest TOMATO Crown. Get Particulars.

Bring You 20-30 Row
ASTERS, PANSIES, Sweet PEAS OR NASTURTIUMS. Best varieties and highest quality. Special advertising offer to acquaint 100,000 new customers with SALZER QUALITY seeds. 20 ft. row of any of the 4 for 10c. Any 3 varieties, 60 ft. row, for 25c, postpaid. COMPLETE VEGETABLE GARDEN, 10 packets, assorted, Radish, Tomato, Lettuce, etc., for 25c, postpaid.

ORCHARD AND GARDEN

PLANTING THE HOTBED.

PEOPLE not experienced are prone to plant the hotbed too soon after making it. The rule is to wait until the heat has dropped down to ninety degrees. First make sure it is going down, not coming up. Ninety degrees is easily determined, for the temperature of the skin exposed to the air, and comfortable, is about that, and when you plunge the hand into the soil, if it feels warm to the skin it is over ninety, but if it feels neither warm nor cold, it is right.

Soil for hotbeds should have the surface inch or more sterilized. The handiest way to do this is to take soil just moist enough so it will not pack, and put in pans in the oven and heat until steaming to the center. Remove and cover with some cloth and let cool gradually, or it may be piled on the bed and covered there, and leveled later, care being taken to avoid mixing in unsterilized soil. Overheating or drying the soil harms it, but steaming thus does not. Both weed seeds and insect pests are destroyed.

Seeds in hotbeds should not be planted very deep, and the surface should be kept moist but not wet. Hotbeds take lots of water, and it is a good plan to give a good soaking before the sterilized soil is placed, for then it will not be necessary to water so much after the seeds are sown, and it is hard to give them a good watering without dislodging them. If the soil shows a tendency to dry fast, it can be checked some by spreading burlap sacks over the surface, but they must be watched closely and be removed at the first sign of germination. Where cool air lies on the surface, as in long cold spells after seeds are planted, the burlap helps to keep the surface warmed from below and often saves the germinating seeds.

If the plants are to be left in the hotbed until planting time, give ample room, but if to be transplanted to a cold frame or pots, then close planting is all right.

Cold frames planted to seeds should be warm and the weather settled. There is nothing gained by planting them too early, for the seeds will rot or the plants stand still until the soil does warm up.—L. H. Cobb.

RAISES ONIONS.

LOREN BEEBE, a fifteen-year-old farmer boy, decided to put in a few rows of onions on some muck land which his father had just drained and cleared off. The venture was a success, and from the few rows Loren sold twelve bushels of good onions, and his family kept a generous supply for themselves. When he wished to attend a celebration in a nearby town, he went, farmer fashion, to his onion patch and gathered a great many bunches of green onions and tied them up nicely. Stowed away in the back of the car, they took up very little room and the local merchant allowed him four cents per bunch for them. Thus he had his spending money, earned by his own efforts. He also discovered that the rich muck land raises superior lettuce and celery as well. He sold the onions locally for \$1.35 per bushel.—Fern Berry.

30 LEAVES TO ONE APPLE

THE leaf area of an apple tree is capable of manufacturing sufficient food material for a given number of apples of good size and quality. On heavily loaded branches and trees there is often less than twenty or thirty leaves per apple, and under these conditions the fruit is small and of poor quality. Although some orchardists

have practiced removing a few apples to increase the leaf area per fruit, until recently there were no experimental data available to indicate the exact number of leaves required per apple.

Horticulturists of the United States Department of Agriculture found that different varieties vary in the relationship between the leaf area and the size and quality in the fruit. For the Grimes and Ben Davis under the conditions of the tests at least 30 or 40 medium-sized leaves per fruit were necessary to obtain apples of good size and quality, and as many as 50 for the Delicious. When a smaller number of leaves was present, the fruit was not only smaller in size, but was low in dry weight, low in sugar content, and of poor dessert quality. It was found also that apples grown with a large leaf area ripen slightly earlier than the same variety having fewer leaves per fruit.

These determinations were made by ringing or "girdling" the bark of a twig to isolate the fruit and leaves from the rest of the tree. Other investigations had shown that ringing large prevented the passing of nitrogen and carbohydrates in either direction past the ring, thus making the fruit beyond the ring depend only upon the leaves with which it was isolated. By ringing and thinning the leaves to a definite number at varying distances from the fruit it was found also that apples can draw food material from adjacent leaves and leaves at a distance of 2 to 4 feet with almost equal facility.

SHORT COURSE—ORNAMENTAL HORTICULTURE.

THIS course is designed for the amateur gardener. It treats the various methods for the beautification and upkeep of the home grounds, as well as certain phases of more utilitarian nature, such as vegetable gardening, small fruits and tree fruits.

Actual practice in the green houses will be furnished, as well as demonstrations when facilities do not permit actual work by the students.

The lectures will be delivered by the members of department of horticulture and landscape gardening.

Monday—Plant propagation; plant propagation laboratory.

Tuesday—Soils and fertilizers; hotbeds and cold frames; making the lawn; design of small place.

Wednesday—Roses; home vegetable garden; annuals; garden design.

Thursday—Bulbs; vegetables; house plants; trees and shrubs.

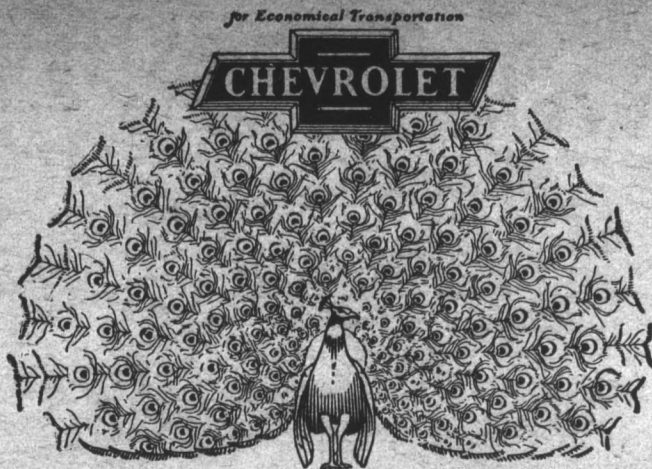
Friday—Care of trees and shrubs; perennials; small fruits; flower arrangement; home fruit garden.

LIQUID AND DUST SPRAYS DISCUSSED.

ONE hundred fruit growers of Oceana county attended a meeting at Shelby and spent four hours discussing the comparative merits of liquid and dust sprays. The manner of spraying seemed to be a matter of individual preference, but all the growers present agreed that thorough coverage of the trees with proper spray materials at the right time is the only method of obtaining fruit of the quality that the public is willing to pay a good price for.

FRUIT GROWERS NEED BEES.

SEVERAL Kalamazoo county fruit growers have decided to also keep a swarm of bees, after listening to Edwin Ewell, specialist in apiculture, and H. D. Hootman, specialist in horticulture, tell of the relation which bees have to pollination of fruit blossoms, and consequently to the amount of fruit which develops from the blossoms.



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Not only does this most beautiful of all low-priced cars offer new paneled and beaded Fisher bodies but also many new fine car features and mechanical refinements such as:

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New full-crown one-piece fenders add a note of smartness to the new and supremely beautiful bodies.

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Modish new bullet-type head and cowl lamps add a pleasing touch of beauty and style.

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A new AC oil filter removes all dirt from the oil supply—assuring greater oil mileage and a minimum of motor wear.

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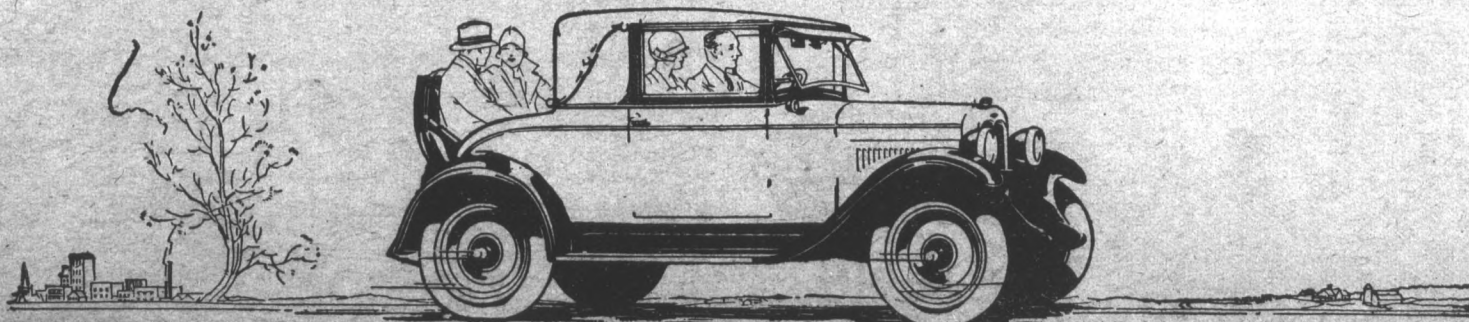
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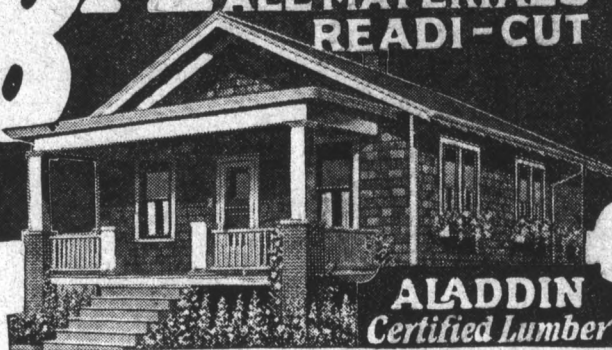
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Price Includes All lumber cut-to-fit, highest grade interior woodwork, siding, flooring, windows, doors, glass, paints, hardware, nails, lath, roofing. Complete instructions and drawings are also furnished. Safe arrival of complete materials is guaranteed. We pay the freight to destination on all Houses, Summer Cottages and Garages.

Save 18% LUMBER—30% LABOR The lumber that's wasted costs just as much as the lumber that's used, and the best way to cut your cost is to save the usual waste. The Aladdin System prepares all the lumber in our mills ready to be nailed in place. Cost of lumber is reduced 18 per cent, cost of labor is reduced 30 per cent. Quantity production of standard designs allows us to quote the very low prices we do, and still maintain the High Quality materials for which Aladdin Homes are noted.

Aladdin's 21 Years' Success is proof that you can do as thousands of other home builders do every year—save from \$200.00 to \$800.00 by building an Aladdin Home. There is an Aladdin near you wherever you live. Go and see one. SAVE money, time and annoyance by ordering all materials from one reliable manufacturer. You get the finest quality of materials obtainable. Our blue prints and instructions make it easy for anyone familiar with tools to erect an Aladdin. You will be sure to find in the Aladdin Catalog the home, garage or summer cottage that you will like. WRITE NEAREST MILL TODAY FOR FREE MONEY-SAVING CATALOG No. 311.

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Burying your Stalks Controls the Corn Borer

The European Corn Borer is a plowing problem. Experts agree that clean plowing is the solution.

They recommend the following method of control:

1st. Start in the center of field and plow outward with OLIVER CORN BORER PLOW before May 1, covering all stalks and debris.

2nd. When all the field is plowed except the outside 12 or 14 rows of stalks, remove mouldboard and lift the stalks by plowing about two inches deep on the row.

3rd. Rake stalks over onto plowed ground.

4th. Replace mouldboard and finish plowing the field.

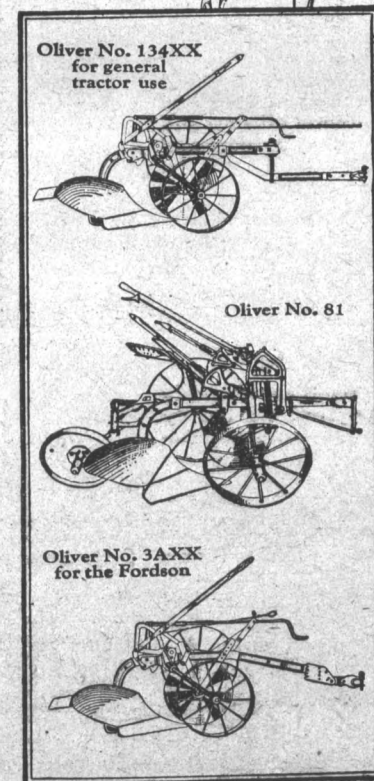
5th. When stalks are dry enough to burn completely destroy them by fire—Stalks must be destroyed before May 1.

Get in touch with your Oliver dealer immediately. Have him demonstrate the OLIVER CORN BORER SULKY OR TRACTOR PLOW in your fields. You have to plow anyway . . . it is just as easy to protect your crop while you are doing it.

Write for our latest literature on the control of the European Corn Borer.

OLIVER

OLIVER CHILLED PLOW WORKS
SOUTH BEND, INDIANA



Opinions & Comments

From Michigan Farmer Readers

THE AGRICULTURAL SITUATION.

I HAVE been thinking a good bit about the general farm situation and its relation to organized industry, as well as the various attempts to give it a sort of cod-liver-oil treatment through legislation by Congress.

In the course of Lincoln's famous "House-Divided" speech, so-called, he said: "If we could first know where we are and whither we are drifting, we could better judge what to do and how to do it." Something of this sentiment, it seems to me, may be applicable to the present situation. The discussion so far has been exceedingly one-sided, and has suggested only very bold and uneconomic remedies without considering just what has happened since August, 1914, as affecting the entire industrial world.

Shortly after this date, and on account of the momentous events that were taking place, agriculture and all organized industry, moved up stairs. The inter-relationship of the one with the other was little disturbed; prices were on a relatively uniform basis, except where the government interfered, with no justification for its act. In the meantime the government took possession of the railroads only to restore them to their owners in a complete state of chaos. But in the brief period of its operation of them, it had reorganized the service and wages on a vastly more extensive plane which was continued in a general way after the war period, and transportation rates were adjusted officially to meet the increased expense. This policy formed the background for all organized and centralized labor, and its products carried the increased costs to the consumer.

In other words, organized industry continued to stay up stairs, because

business conditions permitted it to do so. But agriculture had no choice but to move down again to the first floor, and in a good many cases to the basement amidst the decaying remnants of its former prosperity. It had no means of adding the cost of high-priced labor to its products. During the war it had been spurred on, almost driven, to increase its output beyond anything ever known, and after the war period, it found itself still continuing to throw on the market an excessive output. It had acquired the habit and could not stop, and inasmuch as it recognized no captain or commander in this field.

The manufacturer, under such conditions, would close his shops or otherwise cut down his output, but even though the young fellow quits the farm, as he probably should, still the old man, with his tractor and his two-row cultivator and all the other mechanical helps, continues to produce as much as when there was farm help in abundance.

It ought also to be said that, owing to the shifting of population from country to city, and the greatly increased buying power of city dwellers, the farmer, as a factor in the market, is of very much less significance than was formerly the case, and the past few years have demonstrated that there can be a very generally admitted condition of prosperity and thrift, in which the farmer, and especially the western farmer, has little or no part.

Such, as it seems to me, is the condition that confronts the business or industrial world at this time, and what, if anything, can be done about it? Obviously, the plane upon which agriculture is operating is too far out of balance with that upon which all other industry, including the railroads, is carrying on its business. There is little or no reciprocity between them. If agricultural output were subject to definite control, either through the laws of nature or of man, the adjustment could be easily made, but, in terms of general agriculture, this is entirely out of reach.

Are there, then, any steps that can be taken looking to a better adjustment between the so-called basic industry and all others? It is obvious that the city dweller, the workman, if you please, will not welcome a higher range of prices for the necessities of life, much as he may proclaim his interest in farm thrift. Yet, on the theory of protecting our industries from outside competition, we might accord to the farmer further protection from the importation of agricultural products of certain types, notably dairy products.

Further, it is obviously within the power of the government to reduce the labor cost of transportation and thereby reduce rates if so disposed.

Again, it is quite possible that the present tariff scheduled on certain manufactured goods that are of interest to farmers, might well be reduced to the extent of permitting competition from outside.

These, it seems to me, are the obvious things that the government can do if it really cares to lend a hand in the present rather critical farm situation. Cooperative marketing may meet with a measure of success under favorable conditions, but even at best the sum total of its earnings or savings is small and will not swing agriculture back to its proper relationship to other industries.

Outside of these remedies the comeback will have to be accomplished through a better organization of the farm business, a plan of farming in each individual case, that can face the future and a constant effort toward higher efficiency.—A. M. Brown.

MUCH INTEREST IN POULTRY IN OCEANA.

A TWO-DAY poultry school held at Hart, was attended by thirty-two poultrymen of Oceana county. J. A. Davidson, poultry specialist, and Carl Hemstreet, county agricultural agent, conducted the school. The farm flock owners were especially interested in discussions on housing and feeding their flocks. Several of the people attending the school made applications to have their farm designated as a place where one of the demonstrations of conducting a poultry house will be given this summer by the agricultural engineering department of Michigan State College.

A SUCCESSFUL FARMER SCHOOL.

(Continued from page 305).

Burnett gave the course, and President Butterfield delivered a fine commencement address to the graduates at a special program meeting.

At this meeting on December 28, the chamber of commerce of St. Johns served their rural community neighbors with a fine banquet. The address of welcome was given by the president of the chamber of commerce, Clarence Ebert. The president of the school board, Arthur E. Wilson, added his words of assurance that such work as this had the approval of the board of education.

The next course in animal husbandry was organized with an enrollment of ninety-nine. This number taxed the capacity of the agricultural department quarters, and for the final night the examination and test was held in a larger study hall. Following the last lesson and review, all adjourned to the gymnasium floor where the picture was taken. The program which followed included the address by Commissioner Powell, and an outline of the Clinton County Farm Bureau program by County Agent Clare Burton.

Several vigorous games aroused regulation farmer appetites. These were eventually satisfied by great quantities of sandwiches and much coffee. The coffee was the product of Al. Burk, of the Burk Store, in St. Johns.

If the desire for agricultural knowledge can be measured by the attendance at these two schools, Clinton county farmers have that in abundance.

The extension department have all arrangements made for the third and last soils school to be held this winter.

The picture of better than eighty farmers all writing on a final examination, was evidence that sincere efforts were being made to better themselves. It was positive proof of a desire to take advantage of offered opportunities.

The success of this year's courses so far have resulted in a demand for a school for next winter. Plans are under way now for such a school. It has proved worth the effort. Farmers of Clinton county want this work.

GROW APPLES AND DAIRY PRODUCTS.

(Continued from page 305).

ess blossoms, and because they have robust blossoms and anthers heavily laden with pollen, they are ideal for cross-fertilizing the McIntosh. They noticed that the McIntosh growing next to the Duchess would set full, but the remainder of the trees would be shy as usual. The bees seemed to form a habit of going into the Duchess trees, but did not later go to the rest of the trees. So last spring, Ballards arranged with a bee man to place his bee yard in the orchard; the hives were placed here and there through the orchard. Then limbs were cut from the Duchess trees and made into huge bouquets and set in different parts of the orchard. The limbs were put in lard tubs and kept watered. They blossomed as well as they would on the trees and the bees worked in them and also in the McIntosh blossoms.

The Ballards did not want to pass final judgment on this practice, but

they did say that they had the best crop of McIntosh this year they have ever had and the plan was so successful that they will try it again the spring of 1927.

One would imagine that, with an orchard of this size, the grower would have to ship his fruit to distant markets, but despite the fact that Berrien county produces more fruit than any other county in the United States, save one, more and more the Ballard Brothers are coming to regard the market right at their door as their best market. They advertise in the papers of South Bend, and during the picking season, much of the crop is taken away by automobile, although they do not live on a main traveled road. They like to get the crop disposed of within a short time after it is picked, because a little later, the cows start to freshen and the dairy demands the attention of all hands.

Missaukee and Wexford county potato growers are discussing the possibility of holding a potato show at Cadillac this year.



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This new book is yours

IT tells how to clear your land of stumps and boulders with explosives — the cheaper, easier and better method. 100 pages, profusely illustrated. Your copy is ready. Send today.

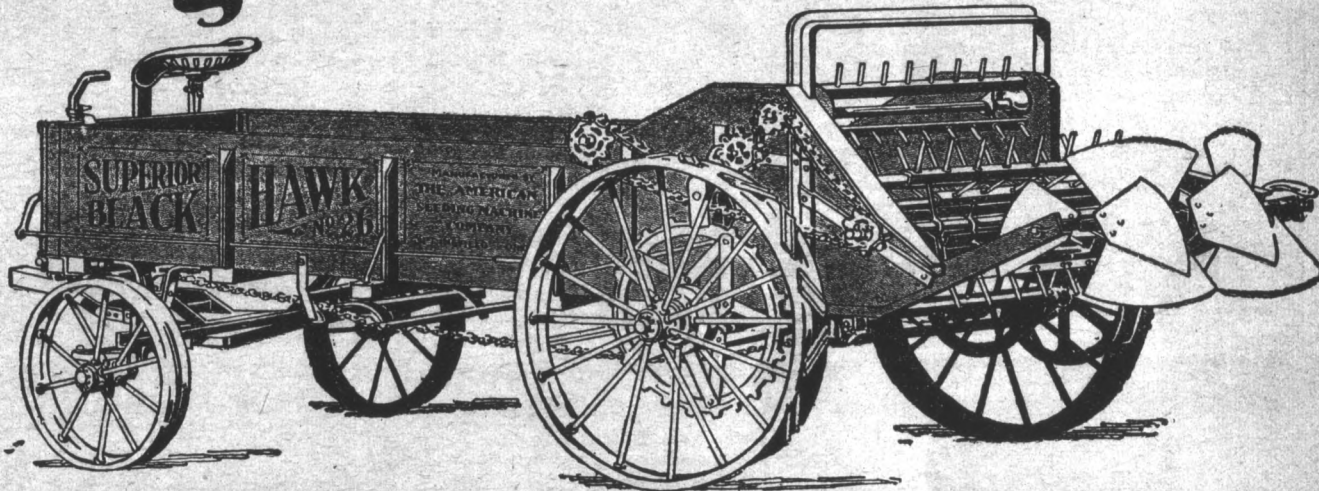
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HERE is a spreader of large capacity yet light weight. It has the shortest turning radius of any spreader. It is a spreader of extraordinary strength and durability — and it is the lightest draft spreader on the market. Easily handled by a two-horse team. You'll see why if you will try it out yourself on your dealer's floor. Put it in gear and see how easily it rolls!

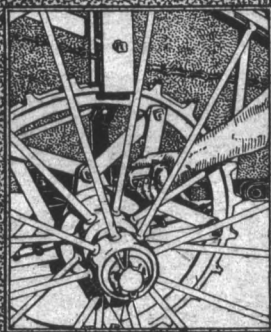
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•with Complete Alemite Lubrication

The Superior Black Hawk Spreader does a perfect job of distribution. It thoroughly pulverizes the manure, spreading it as widely and smoothly as laying down a carpet. It has a spreading range of 4 to 28 loads per acre and it operates as effectively on hillsides as on level ground. See this better spreader at your dealer's, or mail coupon for descriptive literature.

The complete SUPERIOR line of farm implements meets every requirement of fertilizing, planting and cultivating. It includes SUPERIOR Grain Drills, Corn and Cotton Drills, Corn Planters, Lime Sowers, Buckeye Cultivators and SUPERIOR-Black Hawk Manure Spreaders.

Check the Items in the Coupon--Mail It
Today for Full Information!



The SUPERIOR-Black Hawk has Alemite lubrication which makes it easy to keep in perfect condition.

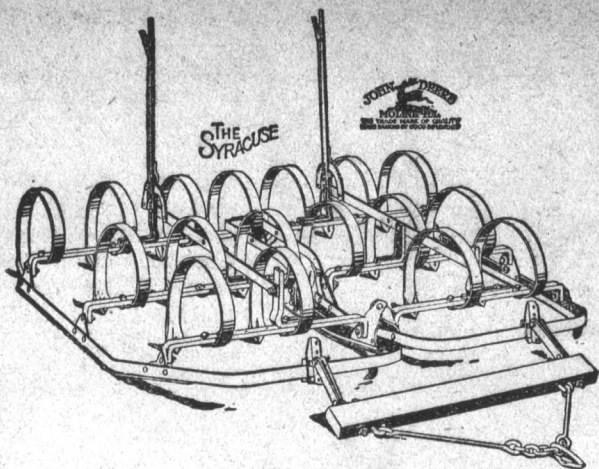
—Grain Drills
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Spring Teeth Make Better Seed Beds

Deep, clean seed beds with the soil well pulverized and all weeds destroyed are made with the

John Deere-Syracuse Spring-Tooth Harrow

The high-carbon steel teeth dig in and clean out the root stems of weeds and bring them to the surface. Effective in hard, gravelly ground. Does not clog. An opening between sections allows the weeds and trash to pass through, so they can be readily hauled away.

Ground is worked from bottom to top and thoroughly mixed.

Teeth are clipped to the bars—no bolt holes to weaken them. Teeth points set at any angle are in correct position for penetrating and getting all of the weeds.

Use this harrow to stimulate production. Write for literature describing it. Address John Deere, Moline, Ill., and ask for Folder ST-723

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THE TRADE MARK OF QUALITY MADE FAMOUS BY GOOD IMPLEMENTS

ADVERTISING THAT PAYS

TRY a Michigan Farmer Liner to sell Your Poultry, Real Estate, Seeds and Nursery Stock and Miscellaneous Articles. See Rates on Page 121.



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New Side Wall Window
Galvanized Steel Sash and Frame

DESIGNED for masonry, hollow tile and wood walls, absolutely tight, frame is mortar filled and becomes solid part of wall. Lasts a life time and is absolutely fireproof. Will never swell or stick. Will never warp, shrink or dry out. Heavy ribbed glass is not easily broken and will throw the light all over the barn. Tilted, permits ample winter ventilation over top without direct draft on animals. For summer tilted and also raised allows greater air volume than any other window.

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Buy no equipment until you know the Clay line. Drop us a card today.

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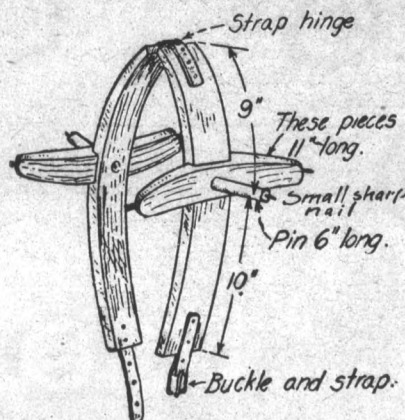
(NEW NAME) **CLAY EQUIPMENT CORPORATION**

Handy Man's Corner

DEVICE PREVENTS SUCKING.

IN a recent issue I noticed a request for suggestions as to some advice on how to prevent a cow from sucking herself, and so I am sending a diagram and description of such a device that is efficient in preventing self-sucking.

It consists of two curved pieces about eighteen or nineteen inches, to fit on each side of the cow's neck, with a heavy strap hinge at the top, and strap and buckle at the bottom. One inch above the middle of each of these is fastened by a double notched joint, a cross-piece about eleven inches long, extending lengthwise of the neck and hence cross-wise of the other pieces. These cross-pieces are fasten-



Device Prevents Cow From Sucking Self - D-619

ed so that the end towards the shoulders are one inch shorter than the ones towards the head. The cross-pieces are fastened to the long pieces with a wooden pin one inch in diameter and six inches long, tapered and wedged on the side next to the neck. Now put a small sharp nail in each end of the short piece, and also one in the outer end of each pin.

I know that this device will break cows of sucking themselves, as I have broken three of the habit. Leave it on for a year, and do not take it off sooner if you expect a cure.—J. D. M.

CEMENT BRICK FOR CHIMNEY

We are going to build a new house this spring. We can get cement brick much cheaper than common chimney brick, but have no experience with cement brick for chimney construction, and would like to know if they are good?—R. T.

It depends altogether on how the cement bricks are made. If they are made by the wet process, with plenty of cement, and are kept wet well while curing, they are just as good, and probably better, than some common brick. If they are made by the dry process, are skimmed in cement, and are not kept well moistened in curing, they are probably not nearly as good as common bricks. You can test the quality roughly in two or three ways. If they give a dull sound instead of a good sharp ring when struck, or if they break easily when tapped together, they should be rejected as unsafe. Also dry one out in a furnace, or over a register for several hours, then weigh it carefully on a butchers' or a grocers' scale, and record the weight. Now soak it in water for twenty-four hours, wipe off all outside moisture and weigh it again carefully. If the increase in weight is more than one-fifth of the weight of the dry block, it indicates lack of cement and lime, and it should not be used.

Whatever type of brick is used for the chimney, be sure to make it large enough to put a good flue lining in it. Send to the United States Department of Agriculture, Washington, D. C., for a free copy of Farmers' Bulletin No. 1230, Chimneys and Fireplaces. They also have other free bulletins which will help you in the construction of your home.—L. W.

The ARLINGTON



Equipped with the same reproducing unit used in much higher priced speakers. Gives more volume with less power. Brings in both voice and instrumental music clear and true—even on two and three tube sets. No rasping or metallic sounds.

Sent prepaid on receipt of certified check or money order. May be returned within five days if not entirely satisfactory.

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Sows 50 Acres a Day

Clover, Timothy, Alfalfa, Red Top, Rye, etc.

Seeds over radius two rods each way, exact. Easily operated, not tiresome. No springs or gears. Light weight, low priced. Durable.

Patented
Regulator Saves Your Seed

Sows exact quantity per acre. No scanty crops from under sowing nor excessive waste of seed. Pays for itself with one sowing. See your dealer or send for instructive circular.

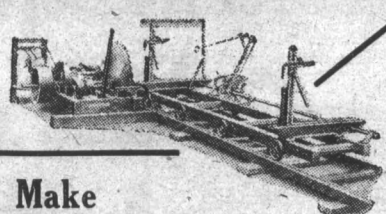
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STRAWBERRY PLANTS

\$2.95 per 1000 and up. Full line of Berry Plants, Fruit Trees, Ornamentals, Roses, Bulbs. Guaranteed stock priced low. 35 yrs. exp. Catalog free. SPECIAL—50 Large Mixed Gladioli Bulbs for \$1.00. J. N. ROKELY & SON, Box 6, Bridgman, Mich.



Make More Money Sawing Accurate Lumber

Farquhar Improved Sawmills cut accurate lumber. Equipped for rapid sawing. Headblock carriage for general sawing; Log Beam for light, slender logs. Side Operating dog. Quick-Acting Geared Set Works. Easily operated—quickly moved—large capacity—sizes for steam or tractor power. Farmers making big profits during winter months. Write for Bulletin 626.

We also build Engines, Boilers, Grain and Bean Threshers, Hay Balers, Cider Presses and Farm Implements. Ask for catalog of machine which interests you.

A. B. Farquhar Co., Limited
BOX 612 YORK, PA.

PLENTY OF LIME IN CLOVERLAND.

TIME suitable for liming the soil is abundant in the Upper Peninsula, being a native product. It exists both in its natural form and as a by-product of carbide and metal furnaces. It is found in the eastern half of the peninsula. Arrangements are being made to facilitate the use of lime by Chippewa county farmers. In Chippewa, hay is the chief cash crop, but it is recognized that the soil has been over-cropped and that alfalfa and clover ought to be substituted for timothy. Three or four tons of lime per acre, it is estimated by D. L. McMillan, county agricultural agent, will put the soil in fine shape for alfalfa. The carbide plant at the Soo will furnish refuse lime free, and there are several quarries in the district from which natural limestone can be secured. It is planned to install screening and crushing machinery to get the limestone in suitable form for the land. This will probably be done at several points. One or two farmers have their own small quarries and there are one or two large company quarries for the production of smelter and furnace limestone. Limestone is in much demand locally as furnace flux, and after it has performed this service is still available for farm use. The railroads afford a very low local rate on lime for farm use, it is stated.

WEIGHTS OF HAY VARY.

CHIPPEWA farmers have had another problem to solve—that of standardizing weights of hay sold. It has been found that shipments of hay frequently vary several hundred pounds from the stated weight when it leaves the press or the depot. There is no suggestion of fraud in this. Scales do vary greatly in accuracy and there is some "leakage" from handling. A producers' association has been formed to attempt the standardization of weights. There needs to be inspection of scales and inspection of shipments. Otherwise there is trouble at the receiving points.

LARGE BEET ACREAGE PROMISED.

THE prospects of a large beet acreage in Menominee county and the larger territory tributary to the sugar factory at Menominee, are said to be exceptionally good. The factory draws its beets from as far north as Escanaba, it is stated, and as far south as the Illinois state line. Contracts are now being made with farmers.

HELPS FARMERS THROUGH HARD TIMES.

THE federal farm loan system has rendered a magnificent service to farmers. It has withstood the most trying times in agriculture, and has come through sound. The long term loans made by the banks of the system at low rates of interest has saved the farmers millions of dollars, Edward E. Jones, member of the federal farm loan board, said in hearings before the house banking and currency committee.

URGE FARMERS TO PLANT FLAX.

CHIPPEWA farmers are urged to plant flax. Here, also, the market situation is said to be favorable. The United States supply of flaxseed is entirely insufficient to meet the country's requirements. At \$1.25 per bushel for seed, flax is said to be a better crop to plant than oats.

Tonight

Delco-Light Helpfulness

in over a . . .

QUARTER MILLION FARM HOMES



TONIGHT, on more than a quarter-million farms, Delco-Light will make short work of the chores.

At an early hour the lights will be snapped off at the barn and the whole family will be ready for an evening of enjoyment—an evening made free from tiresome tasks by electrically operated machinery at both house and barn—an evening made bright and cheerful by electric light wherever it's wanted.

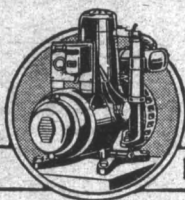
Is your home one of the quarter-million that is equipped with Delco-Light? If not, think

what Delco-Light would mean. Think about it the next time you light your lantern—the next time you try to crowd hours of work into a few remaining minutes of daylight.

And when you think of Delco-Light, remember that it is a convenience you can easily afford—that it is low in first cost, low in cost of operation and can be bought on easy terms.

See the Delco-Light Dealer or write direct to the factory for complete information.

A size Delco-Light for every need.
750 watts to 1250 watts capacity.
Battery, Non-Battery, Automatic and Semi-Automatic Plants.
Prices: \$225 up, f.o.b. Dayton.



ELECTRIC LIGHT

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Dependable

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FARM ELECTRICITY

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Banish the Old Hot-and-Cold Stove



VECTO'S many inner ribs, scientifically placed, give a triple heating surface. VECTO thereby compels two buckets of coal to heat far more air than three by an ordinary stove. The VECTO Warm Air Heater at \$97 (freight extra) offers best heating method to any who cannot at

once afford Ideal ARCOLA Hot Water Radiator Heating. \$10 down. Catalog free.

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Ideal Vecto HEATER

GALLOWAY COATS

\$22.00 Special Sale Price \$34.75
Made from hides Delivered to you
supplied by you. from our stock.
No better protection from cold winter blizzards. Long years of wear—fully guaranteed. Ship us your cattle and horse hides and other raw furs; we will convert them into furs, fur coats and robes at considerably less than the usual prices. We also make and have in stock a full line of ladies' fine fur coats. Buy from us and save money. Catalogues and other prices gladly sent upon request.
HILLSDALE ROBE & TANNING CO., Hillsdale, Mich.
(Oldest Galloway Fur Dressers in U. S.)

WINDBREAK EVERGREENS

Now is the time to shelter your home, save fuel, shelter your stock and have winter's feed—you can do it with us. EVERGREEN WINDBREAK—Millions of evergreens in my nursery waiting for you at lowest prices ever, all varieties, all sizes. Northern grown. All bards stock.

5 EVERGREENS 10¢
2 year, 4 to 6 in. seedling—popular variety, or 6 each of 3 varieties, 15 in all for \$1.00. Special advertising offer on FURUS EVERGREENS.

BIG CATALOG FREE

1 BARGAINS
trees, 4 for \$1.00. CONCORD GRAPES, 2 year, 10 for \$1.00; ROSES, Rambler, assorted colors, 4 for \$1.00; PEONIES, assorted colors, 3 for \$1.00; GERANIUM, 15 for \$1.00. Others in catalog.

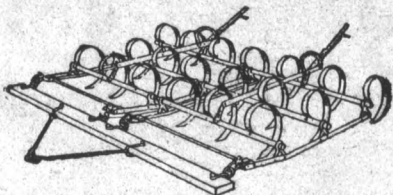
EARL FERRIS NURSERY
505 Bridge St. Hampton, Iowa

Increase Your Harvest Now!

Good Crops Require Good Cultivation

Good Cultivation Means Using the KOVAR Digger

Successful farmers use the Kovar because it is the most scientifically designed, all-purpose, cultivating implement on the market. It has no equal for preparing the seed bed for any crop—nothing like it for eradicating quack grass and other noxious weeds. Every time the Kovar crosses your fields you increase your harvest and add to your bank roll.



Study These Reasons For KOVAR Superiority

KOVAR teeth are flat on the bottom, always, insuring drawing into the ground and being easily sharpened.
KOVAR teeth are polished, permitting them to scour and making an easier draft for the power.
KOVAR hitch is in the center causing a high arched effect causing greater resiliency and a full recoil of the spring which means good cultivation.
KOVAR teeth cut through ground like plow points keeping their proper depth regardless of ground irregularities.
KOVAR frame is flexible causing a hinging action on the teeth as they work through the ground, thus protecting teeth and preventing rubbish from accumulating.
KOVAR teeth lift up the soil bringing lumps to the surface, leveling the field and making it immediately ready for planting.

The Kovar digger loosens your cold, wet soil in the spring and leaves it in a loose mulch, so the sun and air can penetrate it. Because of their shape the Kovar teeth scour easily; they give the soil a rolling, rotating movement that leaves a perfect seed bed. This work well done is the first important step to insure freedom from weeds, a full yield and a good profit at harvest.

Make up your mind right now that you will use a Kovar and make every acre produce to the limit. Eradicate your quack grass and other noxious weeds, and give each crop a chance to do its best without undue hazards of loss.

Don't forget! Kovar cultivation is your best crop insurance. Get our bulletin "Cultivate with Kovar." Send in coupon today.

Jos. J. KOVAR Co. OWATONNA MINNESOTA

Please send me information about increasing my production.

Name..... Address..... State.....

68 MILES ON 1 GALLON OF GAS
Thermostatic Carburetor Control big success. Ford goes 68 miles on 1 gal. gas. Starts coldest motor instantly. **ONE FREE TO INTRODUCE.** Sales guaranteed. \$15.00 a day guaranteed to distributors. Write **BLANCHE AUTO DEVICES Co., 157 E. Erie St., Dept. 259-C, Chicago, Ill.**

FISH Guaranteed Finest Quality and safe delivery via Express. 100 lbs. Winter-caught Frozen Bayfish, Suckers or Mullet, Large, \$5.85; Pick-
erel, Round, \$7.35; headless, dressed, \$9.35; Large Perch, \$6.85; Yellow or Walleyed Pike, \$10.85; Salmon, \$13.35; Small dressed Whitefish, \$10.35; Large, dressed, \$14.35; Whiting or Sea Pike, \$6.85; Flounders, \$9.35. Less than 100-lb. lots 3/4c per lb. higher. Remit with order. Write for complete price list. Fresh, Smoked, Salted and Spiced Fish.
JOHNSON FISH CO., GREEN BAY, WIS.

FISH New loose frozen February catches. Quality guaranteed. 100 lbs. Pickerel, round, \$6.50; Pickerel, headless, dressed, \$8.00; Large mullet, dressed, \$8.00; Large mullet, dressed, three pounds each, \$11.50; Salmon, \$13.00; Herring, dressed, \$6.00; large yellow perch, \$6.00. We charge 3/4c per pound higher in less than 100-lb. orders. Box charge 35c.

INDEPENDENT FISH CO. DEPT. J GREEN BAY, WIS.

Let Us Protect You

State Mutual Rodded Fire Insurance Co., of Mich.
HOME OFFICE—FLINT, MICH.

Largest Farm Fire Insurance Co., in Michigan
A Blanket Policy Covering all Farm Personal Property
Agents Wanted In Good Territory.
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Build Your Barn with Kalamazoo Glazed Tile
You can build your barn or any building with fire-safe Kalamazoo Glazed Tile at the same cost as wood. Easy to erect, lasts longer, no upkeep. Warmer in winter, cooler in summer.
Kalamazoo Glazed Tile
Costs no more than wood. Fire-safe. Lasts longer. No upkeep. Write for free book—Better Farm Buildings. **Kalamazoo Tank & Silo Company**
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LEADCLAD FARM FENCE

When Frost comes out—Fence Posts should go in!

When you erect fence this spring, erect a fence that will pay you for the time and trouble of putting it up. A Leadclad fence gives three times the service and requires no more time or labor to stretch than ordinary fence. When you put up Leadclad you can figure that you're done fencing there for a good many years. The heavy coating of pure lead is what gives Leadclad Fence its extraordinary long life. Once you use Leadclad fence you'll wonder why you ever fooled with ordinary fence. Write for the new Leadclad catalog—it'll save you fence and roofing dollars.
LEADCLAD WIRE COMPANY,
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A Leadclad Roof is Lightning Proof!

Write for OUR NEW 1937 CATALOG

AS YOUR BANKER SEES IT.

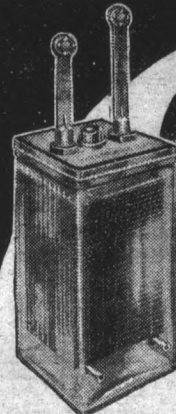
(Continued from page 308).
denly removed—such as he who has carried the burden of support of sick or aged dependents, lately deceased; and the fellow who has shown in practice his deep-seated aversion to birth control—the results of which have but just reached a self-supporting age. Then there are, the man who has been forced by circumstances to be a misfit, the round peg in the square hole; and another, the peculiar temperament, the man of slow maturity; and still another, the premature genius, the man ahead of his time and of his fellows—each of these may just be finding his place in life. Then comes the exception of character reformation, the reformed crook or drunkard who is now endeavoring to climb out of a pit of his own digging. A banker would have to be a psychologist of superhuman ability to justly analyze all of these exceptions, but the man included in any one of them owes it to himself to at least state his side of the case as convincingly as possible. Moreover, it should be well understood that the worst possible financial reputation, the one the most hopeless to overcome, is that of being "good—but good for nothing."

The most productive years of business usually follow about ten years' experience and the best results follow in the next twenty years, then there comes in every man's life a time when his faculties begin to slip. The perception is less acute, the memory fails, and the individual is less able to analyze. The individual will not understand present conditions and will be guided by principles that were valid and had their point of application a quarter of a century before. This is the most serious deficiency of farmers past the meridian of life. They cannot see that things change and do not discriminate between the passing and the permanent in business conditions and principles. They are misled by deductions from experience that no longer have validity. No other industry suffers from the dead hand of age as does agriculture, and no business failures are more tragic than those of old men deceived by their own experience that changing conditions have made worthless.

The individual at this time often feels that he is in the prime of life and has the greatest confidence in his own judgment and ability. Men of this type are always talking of the past (the good old days), boasting of their experience and deriding the folly and mistakes of youth—they usually take proffered advice as an insult. This over-confidence leads many men, fairly successful up to middle life, to mass their energies and risk all their capital in one grand venture—and lose all in the one mishap. This type of business disaster is often serious, as the position and prestige of the loser, based on an over-valuation of his supposed experience, with no understanding of decline, causes many to willingly associate themselves and their money with the fatal enterprise. Some men in their later years have a sort of second, or false, adolescence, when they experience something of a return of the courage and exuberant ambition of youth. If this is attended by the retention of sound judgment, they not infrequently accomplish truly noteworthy results—but if not, it means tragic disaster.

"It takes a mighty good man to keep up with that old rooster," was the oft-repeated laudatory comment with regard to my neighbor of a few years back, and indeed it did, for the "old rooster," a man past seventy, was a better man in the field than many another half his age. This man had always been a renter and his savings of a lifetime were ample to pay cash for a good eighty acres—but in the conceit of his age, he must have a farm three times this size—and ran in debt \$12,000. In the midst of the first year
(Continued on page 337).

New Batteries for Old



Universal BATTERIES

Trade-in allowance on all makes

Enjoy the service your light plant gave when new. Give it a chance to do its job right with new, powerful Universal Batteries.

Save Money

We'll take your old batteries in trade on a set of Universal Nu-Seals—the original sealed-glass cell now recognized as the standard replacement for any make of plant.

Need Less Care

Universals need fewer fillings, require less attention, are built to give an abundance of sure, steady power and light current.

Replacements for ANY make of plant

Universal Batteries are suited to all makes of plants—now factory equipment on many.

Battery Guide FREE

Big free book that tells you how to care for all batteries. We make farm light, radio and auto batteries for every purpose—this book gives you our expert advice. Send for it. And remember there's a good trade-in allowance on your worn-out batteries. Ask for it—today!

UNIVERSAL BATTERY COMPANY
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UNIVERSAL BATTERIES

KINKADE GARDEN TRACTOR and Power Lawnmower

A Practical, Proven Power Cultivator for Gardeners, Suburbanites, Truckers, Florists, Nurserymen, Fruit Growers, American Farm Machine Co., 1003-33rd Av. S.E., Minneapolis, Minn.

Get Low Prices on Berry Boxes and Baskets

Write for our Free Catalog! Shows you how you can save money by buying direct from the largest Berry Box and Basket Factory in the Country.
New Albany Box & Basket Co., Box 112 New Albany, Ind.

Nitrate of Soda for the Orchard

"The use of Nitrate of Soda or other quickly available forms of Nitrogen, in even rather liberal quantities, has given more widespread and more general beneficial results than any other one fertilizer treatment in the growing of deciduous fruits."

This statement is quoted from the U. S. Department of Agriculture Year Book.

Tests by State Experiment Stations in all the apple growing districts have proven that it is useless to expect profitable production from the sod orchard without liberal use of quick acting nitrogen. They all recommend Nitrate of Soda.

Peaches, Pears and other deciduous fruits respond to the use of Nitrate of Soda readily as apples.

Our new pamphlets telling how to fertilize apples and other crops, as well as timely suggestions from our State Manager who is in touch with your local fertilizer conditions will be sent you without cost. Cut out this advertisement, write your principal crops and mail it to our nearest office. 1505

Chilean Nitrate of Soda Educational Bureau

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Baltimore, Md. Montgomery, Ala. Little Rock, Ark.
Columbia, S. C. Jackson, Miss. Nashville, Tenn.
Atlanta, Ga. New Orleans, La. Columbus, Ohio
Orlando, Fla. Dallas, Tex. Los Angeles, Cal.

NO ACTION ON MUSCLE SHOALS THIS SESSION.

THERE is little hope of getting action on the Muscle Shoals disposal proposition this session. The House military sub-committee has turned down both the American Cyanamid Company and the Farmers' Federated Fertilizer Corporation bids for fertilizer production and power development at Muscle Shoals. Representative Madden, of Illinois, says he is informed that the committee had agreed on almost every point at issue on the Cyanamid Company's bid, but that more time for study was required.

WILL MAKE SURVEY OF LAND GRANT COLLEGES.

A SURVEY of the fifty-two white and seventeen negro land grant colleges is to be made within the next few weeks by the bureau of education, department of the interior. The survey has been authorized by Congress, and funds amounting to \$67,000 provided to carry out the first year's program. The bureau of education announces that this is to be the most important and extensive educational survey ever undertaken in America. It will be made at the request of the National Association of Land Grant Colleges, and the secretary of agriculture.

WOOL ASSOCIATIONS HOLD CONFERENCE.

AT the close of a two-day conference of cooperative wool marketing associations in Washington, the officials of the department of agriculture announced that the new division of cooperative marketing will make a nation-wide survey of wool marketing. Representatives of thirty leading wool pools, with a membership of 38,000 wool growers who market 30,000,000 pounds of wool annually, attended the conference.

Chris L. Christensen, in charge of the department's cooperative marketing activities, says the plan of research will include the collection and analysis of data on the business set-up of wool cooperatives over the country, a study of membership problems, studies to measure the benefits of cooperative marketing of wool and of the demand for different types and qualities of wool.

This was the first of the commodity conferences authorized under the act creating the division of cooperative marketing to be held, and it was highly successful.

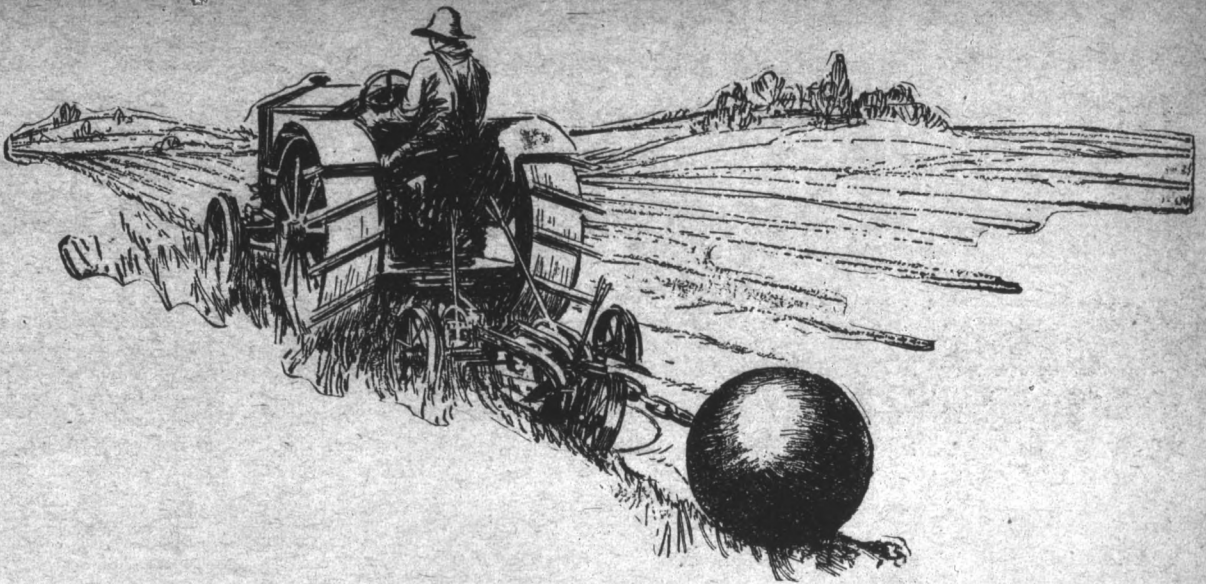
BIG INCREASE IN POTATO ACREAGE PROMISED.

THE farming business enters the new season with an outlook at least as good as a year ago, with some slight possibilities of improvement, according to marketing specialists in the bureau of agricultural economics. Late reports indicate that farmers are planning to increase the potato acreage about thirteen per cent. Following the past two years of short crops and high prices, it is probable that the reaction this spring will swing toward the planting of an excessive acreage.

Exceptional weather conditions gave a fourth greater fruit crop in 1926 than in 1925, causing low prices, but there is little reason to expect a repetition this season of the conditions that prevailed last year in the fruit industry.

The dairy situation is generally firm, with a storage situation presenting a price outlook that would seem to lend strength to the position of butter, poultry and hog producers.

President Coolidge has signed a bill amending the agricultural credit act of 1923, to permit the Intermediate Credit Banks to make loans on growing crops.



Like a Ball and Chain on Your Tractor's Power



Buy at the Sign of the Boy and Slate

En-ar-co Gear Compound
Keeps All Tractors Cool

En-ar-co Motor Oil
Light—Medium—Heavy Extra Heavy

Steel Drums 80c Per Gal.
Half-Drums 85c Per Gal.
10 Gal. Cans 95c Per Gal.
5 Gal. Cans \$1.00 Per Gal.
1 Gal. Cans \$1.15 Per Gal.

Prices subject to change

Special En-ar-co Motor Oil for Ford Cars
Medium—Light

Poor oil, which breaks down under the terrific heat of heavy work, eats into the power of your motor like dragging a heavy load. Worse yet, it brings unnecessary wear and costly break-downs.

The best oil—En-ar-co—is important anytime. But now, with plowing, planting and other spring work, your tractor must do its hardest work of the year. Hour after hour, with wide open throttle, demands perfect lubrication.

Ask Your Dealer For En-ar-co MOTOR OIL

Don't risk damage to your tractor when you need it most. Nearly fifty years of making quality lubricants, of improvements and refinements, of actual tests in all kinds of tractors, trucks and cars, are back of En-ar-co oils. All tractor manufacturers recommend them.

Your tractor deserves and needs the best oil for its heavy tasks of preparing the soil for the spring planting—get it at the sign of the Boy and the Slate.

THE NATIONAL REFINING COMPANY

Producers, Refiners and Marketers of "Quality" En-ar-co Products for Nearly Half a Century. Branches and Service Stations in 120 Principal Cities of the United States.

Send for the EN-AR-CO Auto Game FREE!
The National Refining Co., 704 C-3, National Bldg., Cleveland, O.
I enclose 4c in stamps to cover postage and packing. Send En-ar-co Auto Game FREE.

My Name is _____ Street or R. F. D. No. _____
Post Office _____ County _____ State _____
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IS ALFALFA BELL BRAND Northern Grown

Whatever kind of soil you have, there's an Isbell strain of alfalfa that will give you wonderful yield. Beware imported seed of unknown purity, germination and hardiness. Vitality and adaptation to soil and climate are bred into Isbell seeds. Send today for your copy of Isbell's Seed Annual—the authoritative book on seeds and crops. Samples showing quality sent on request FREE.

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"Nothing succeeds like success," they say, but where success is constant and increasing there must be some unusual merit back of it. The continued success of the Auto-Oiled Aermotor is based entirely on merit. It has been made better and better year after year. Improvements have been added as experience has shown the way. The Auto-Oiled Aermotor of today is a wonderfully durable and efficient windmill.

The Aermotor Company, more than 12 years ago, solved the problem of complete self-oiling for windmills in such a way as to make the system absolutely reliable. The oil circulates to every bearing and returns to the reservoir with never a failure. There are no delicate parts to get out of order. The double gears run in oil in a tightly enclosed gear case.

AERMOTOR CO.
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Ditcher-Terracer - Grader
All steel, adjustable, reversible. Cuts V-shaped ditch to 4 ft. Open, tilling or irrigation. Cleans old ditches; builds field terraces. Does work of 100 men. Operates horses or tractor. **10 DAYS FREE TRIAL.** Satisfaction or no sale. Send for free book and special low price. Owensboro Ditcher & Grader Co., Inc. - Box 2015 Owensboro, Ky.

SAVED \$30.00 **Get Brown's New CUT PRICES**

W. T. Greathouse writes: "Fence received yesterday. I saved \$30.00 in buying from you." Our new cut prices are way below others—and Brown Pays Freight

Write for our new 15.6 cut price catalog—see the dollars you save. 150 styles. Double galvanized, open hearth wire. Roofing and paints. **THE BROWN FENCE & WIRE CO. Dept. 2501 Cleveland, Ohio**

KITSELMAN FENCE

FACTORY TO YOU **FREE CATALOG**

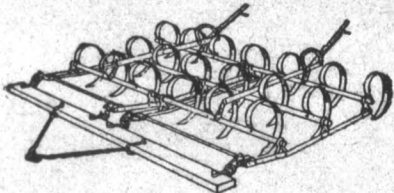
NEW LOW PRICES NOW READY
Big money-saving values in Farm, Poultry and Lawn Fence, Steel Posts, Gates, Barb Wire, Fencing, Roofing. Buy now while prices are down. Prompt shipments. Factory to you. Satisfaction guaranteed. **WE PAY THE FREIGHT. "I saved \$23.50"** says Geo. Arney, Daviess Co., Indiana. You, too, can save. Don't delay, write for our new FREE Catalog. **KITSELMAN BROS. Dept. 276 MUNCIE, INDIANA**

Increase Your Harvest Now!

Good Crops Require Good Cultivation

Good Cultivation Means Using the KOVAR Digger

Successful farmers use the Kovar because it is the most scientifically designed, all-purpose, cultivating implement on the market. It has no equal for preparing the seed bed for any crop—nothing like it for eradicating quack grass and other noxious weeds. Every time the Kovar crosses your fields you increase your harvest and add to your bank roll.



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Don't forget! Kovar cultivation is your best crop insurance. Get our bulletin "Cultivate with Kovar." Send in coupon today.

Jos. J. KOVAR Co. OWATONNA MINNESOTA

Please send me information about increasing my production.

Name _____ Address _____ State _____

66 MILES ON 1 GALLON OF GAS
Thermostatic Carburetor Control big success. Ford goes 68 miles on 1 gal. gas. Starts coldest motor instantly. **ONE FREE TO INTRODUCE.** Sales guaranteed. \$15.00 a day guaranteed to distributors. Write **BLANCKE AUTO DEVICES Co., 157 E. Erie St., Dept. 259-C, Chicago, Ill.**

FISH Guaranteed Finest Quality and safe delivery via Express. 100 lbs. Winter-caught Frozen Bayfish. Suckers or Mullet, Large, \$5.85; Pick- erel, Round, \$7.35; headless, dressed, \$9.35; Large Perch, \$6.85; Yellow or Walleyed Pike, \$10.85; Salmon, \$13.35; Small dressed Whitefish, \$10.55; Large, dressed, \$14.35; Whiting or Sea Pike, \$6.85; Flound- ers, \$9.35. Less than 100-lb. lots 3/4¢ per lb. higher. Remit with order. Write for complete price list. Fresh, Smoked, Salted and Spiced Fish.
JOHNSON FISH CO., GREEN BAY, WIS.

FISH New loose frozen February catches. Quality guaranteed. 100 lbs. Pick- erel, round, \$6.50; Pick- erel, headless, dressed, \$8.00; Large mullets or suckers, \$5.50; Tulibee Whitefish, \$7.50; large dressed whitefish, three pounds each, \$11.50; Salmon, \$13.00; Herring, dressed, \$6.00; large yellow perch, \$6.00. We charge 1/4¢ per pound higher in less than 100-lb. orders. Box charge 35¢.

INDEPENDENT FISH CO. DEPT. J GREEN BAY, WIS

Let Us Protect You

State Mutual Rodded Fire Insurance Co., of Mich.
HOME OFFICE—FLINT, MICH.

Largest Farm Fire Insurance Co., in Michigan
A Blanket Policy Covering all Farm Personal Property
Agents Wanted In Good Territory.
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710-713 F. P. Smith Bldg., FLINT, MICH.

Build Your Barn with Kalamazoo Glazed Tile
Kalamazoo Glazed Tile Cost no more than wood, Fire-safe, Lasts Longer. No upkeep. Write for free book—Better Farm Buildings. **Kalamazoo Tank & Silo Company** Dept. G3 Kalamazoo, Mich.

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AS YOUR BANKER SEES IT.

(Continued from page 308).
denly removed—such as he who has carried the burden of support of sick or aged dependents, lately deceased; and the fellow who has shown in practice his deep-seated aversion to birth control—the results of which have but just reached a self-supporting age. Then there are, the man who has been forced by circumstances to be a misfit, the round peg in the square hole; and another, the peculiar temperament, the man of slow maturity; and still another, the premature genius, the man ahead of his time and of his fellows—each of these may just be finding his place in life. Then comes the exception of character reformation, the reformed crook or drunkard who is now endeavoring to climb out of a pit of his own digging. A banker would have to be a psychologist of superhuman ability to justly analyze all of these exceptions, but the man included in any one of them owes it to himself to at least state his side of the case as convincingly as possible. Moreover, it should be well understood that the worst possible financial reputation, the one the most hopeless to overcome, is that of being "good—but good for nothing."

The most productive years of business usually follow about ten years' experience and the best results follow in the next twenty years, then there comes in every man's life a time when his faculties begin to slip. The perception is less acute, the memory fails, and the individual is less able to analyze. The individual will not understand present conditions and will be guided by principles that were valid and had their point of application a quarter of a century before. This is the most serious deficiency of farmers past the meridian of life. They cannot see that things change and do not discriminate between the passing and the permanent in business conditions and principles. They are misled by deductions from experience that no longer have validity. No other industry suffers from the dead hand of age as does agriculture, and no business failures are more tragic than those of old men deceived by their own experience that changing conditions have made worthless.

The individual at this time often feels that he is in the prime of life and has the greatest confidence in his own judgment and ability. Men of this type are always talking of the past (the good old days), boasting of their experience and deriding the folly and mistakes of youth—they usually take proffered advice as an insult. This over-confidence leads many men, fairly successful up to middle life, to mass their energies and risk all their capital in one grand venture—and lose all in the one mishap. This type of business disaster is often serious, as the position and prestige of the loser, based on an over-valuation of his supposed experience, with no understanding of decline, causes many to willingly associate themselves and their money with the fatal enterprise. Some men in their later years have a sort of second, or false, adolescence, when they experience something of a return of the courage and exuberant ambition of youth. If this is attended by the retention of sound judgment, they not infrequently accomplish truly noteworthy results—but if not, it means tragic disaster.

"It takes a mighty good man to keep up with that old rooster," was the oft-repeated laudatory comment with regard to my neighbor of a few years back, and indeed it did, for the "old rooster," a man past seventy, was a better man in the field than many another half his age. This man had always been a renter and his savings of a lifetime were ample to pay cash for a good eighty acres—but in the conceit of his age, he must have a farm three times this size—and ran in debt \$12,000. In the midst of the first year

(Continued on page 337).

New Batteries for Old



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Nitrate of Soda for the Orchard

"The use of Nitrate of Soda or other quickly available forms of Nitrogen, in even rather liberal quantities, has given more widespread and more general beneficial results than any other one fertilizer treatment in the growing of deciduous fruits."

This statement is quoted from the U. S. Department of Agriculture Year Book.

Tests by State Experiment Stations in all the apple growing districts have proven that it is useless to expect profitable production from the orchard without liberal use of quick acting nitrogen. They all recommend Nitrate of Soda.

Peaches, Pears and other deciduous fruits respond to the use of Nitrate of Soda readily as apples.

Our new pamphlet telling how to fertilize apples and other crops, as well as timely suggestions from our State Manager who is in touch with your local fertilizer conditions will be sent you without cost. Cut out this advertisement, write your address in the margin, naming your principal crops and mail it to our nearest office.

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NO ACTION ON MUSCLE SHOALS THIS SESSION.

THERE is little hope of getting action on the Muscle Shoals disposal proposition this session. The House military sub-committee has turned down both the American Cyanamid Company and the Farmers' Federated Fertilizer Corporation bids for fertilizer production and power development at Muscle Shoals. Representative Madden, of Illinois, says he is informed that the committee had agreed on almost every point at issue on the Cyanamid Company's bid, but that more time for study was required.

WILL MAKE SURVEY OF LAND GRANT COLLEGES.

A SURVEY of the fifty-two white and seventeen negro land grant colleges is to be made within the next few weeks by the bureau of education, department of the interior. The survey has been authorized by Congress, and funds amounting to \$67,000 provided to carry out the first year's program. The bureau of education announces that this is to be the most important and extensive educational survey ever undertaken in America. It will be made at the request of the National Association of Land Grant Colleges, and the secretary of agriculture.

WOOL ASSOCIATIONS HOLD CONFERENCE.

AT the close of a two-day conference of cooperative wool marketing associations in Washington, the officials of the department of agriculture announced that the new division of cooperative marketing will make a nation-wide survey of wool marketing. Representatives of thirty leading wool pools, with a membership of 38,000 wool growers who market 30,000,000 pounds of wool annually, attended the conference.

Chris L. Christensen, in charge of the department's cooperative marketing activities, says the plan of research will include the collection and analysis of data on the business set-up of wool cooperatives over the country, a study of membership problems, studies to measure the benefits of cooperative marketing of wool and of the demand for different types and qualities of wool.

This was the first of the commodity conferences authorized under the act creating the division of cooperative marketing to be held, and it was highly successful.

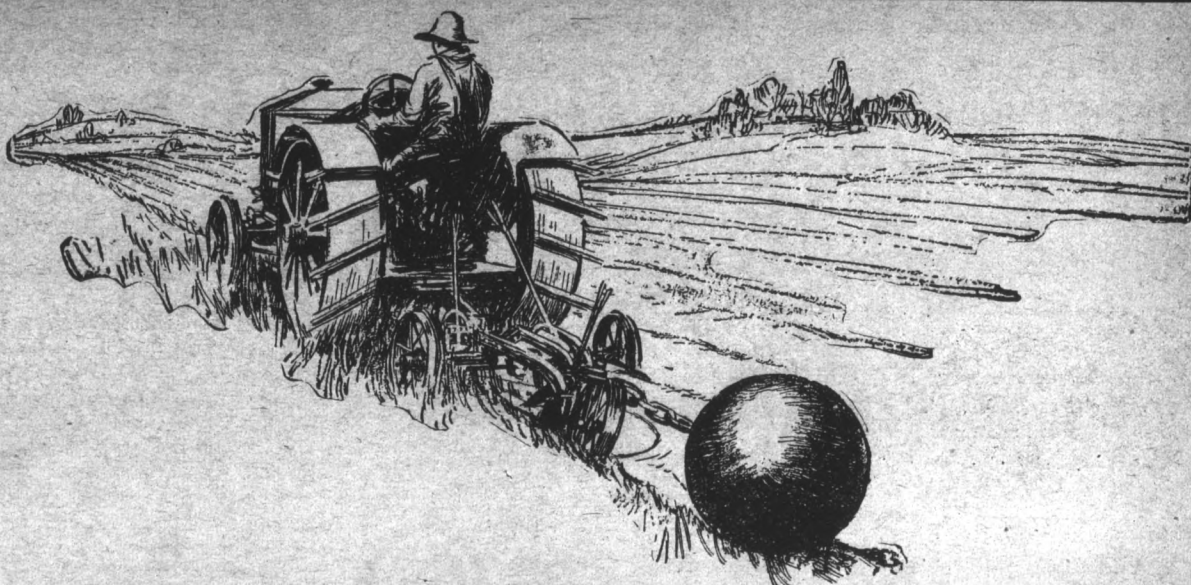
BIG INCREASE IN POTATO ACREAGE PROMISED.

THE farming business enters the new season with an outlook at least as good as a year ago, with some slight possibilities of improvement, according to marketing specialists in the bureau of agricultural economics. Late reports indicate that farmers are planning to increase the potato acreage about thirteen per cent. Following the past two years of short crops and high prices, it is probable that the reaction this spring will swing toward the planting of an excessive acreage.

Exceptional weather conditions gave a fourth greater fruit crop in 1926 than in 1925, causing low prices, but there is little reason to expect a repetition this season of the conditions that prevailed last year in the fruit industry.

The dairy situation is generally firm, with a storage situation presenting a price outlook that would seem to lend strength to the position of butter, poultry and hog producers.

President Coolidge has signed a bill amending the agricultural credit act of 1923, to permit the Intermediate Credit Banks to make loans on growing crops.



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The best oil—En-ar-co—is important anytime. But now, with plowing, planting and other spring work, your tractor must do its hardest work of the year. Hour after hour, with wide open throttle, demands perfect lubrication.

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MOTOR OIL

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Your tractor deserves and needs the best oil for its heavy tasks of preparing the soil for the spring planting—get it at the sign of the Boy and the Slate.

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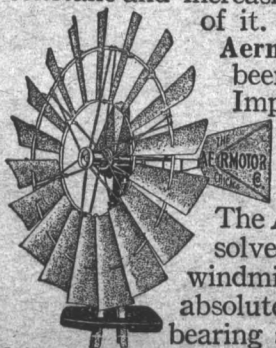
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"Nothing succeeds like success," they say, but where success is constant and increasing there must be some unusual merit back of it. The continued success of the Auto-Oiled Aermotor is based entirely on merit. It has been made better and better year after year. Improvements have been added as experience has shown the way. The Auto-Oiled Aermotor of today is a wonderfully durable and efficient windmill.



The Aermotor Company, more than 12 years ago, solved the problem of complete self-oiling for windmills in such a way as to make the system absolutely reliable. The oil circulates to every bearing and returns to the reservoir with never a failure. There are no delicate parts to get out of order. The double gears run in oil in a tightly enclosed gear case.

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Take Biennial Sweet Clover for example. At the top (No. 1) is an enlarged photograph of an average lot of seed as it came from the thresher. Not fit to sow in this condition.

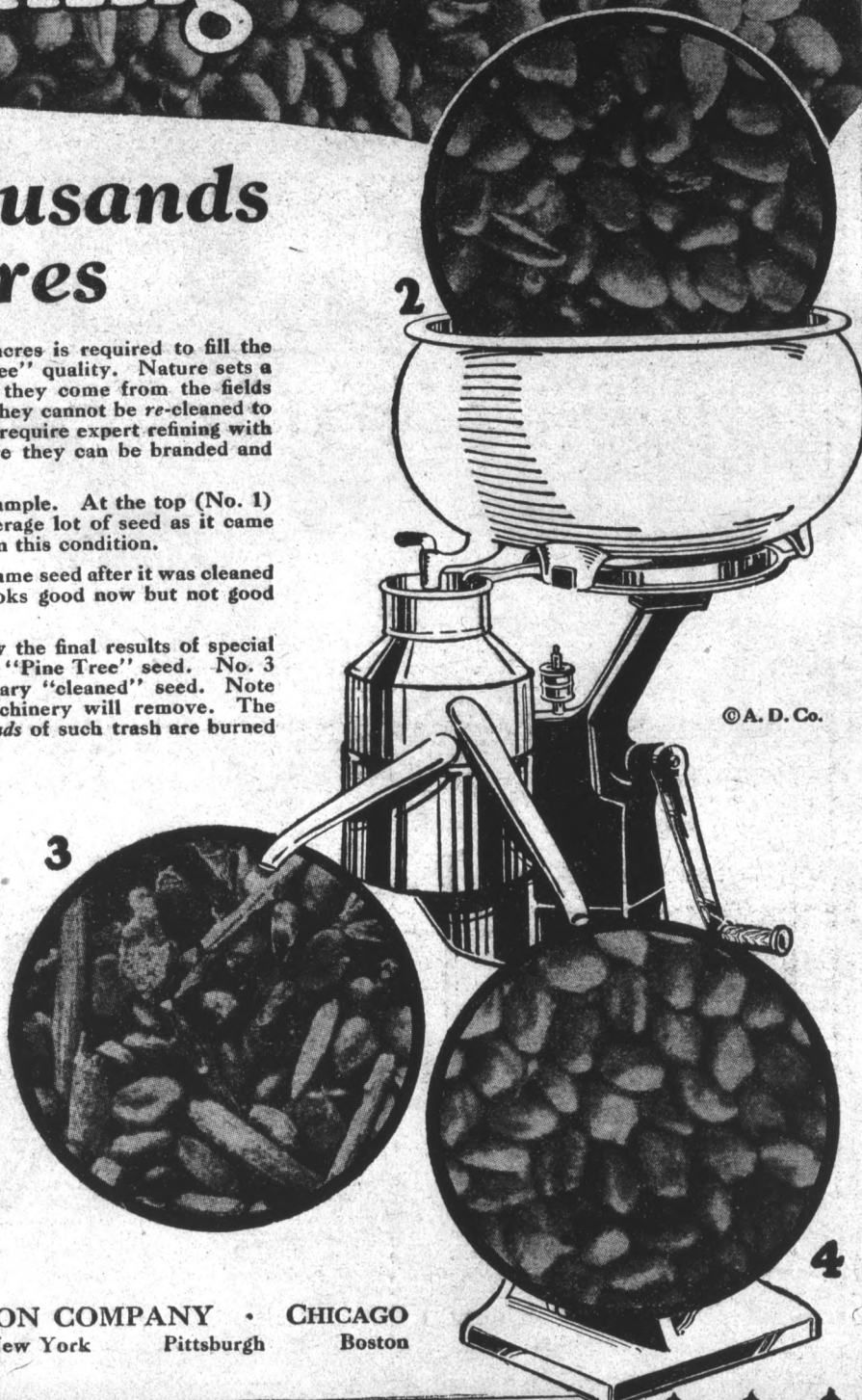
The circle marked No. 2 shows the same seed after it was cleaned by the grower's local elevator. Looks good now but not good enough for "Pine Tree."

Circles 3 and 4 at the bottom show the final results of special "Pine Tree" re-cleaning. No. 4 is "Pine Tree" seed. No. 3 is what was taken out of the ordinary "cleaned" seed. Note weed seeds which only special machinery will remove. The microscope shows them up. Carloads of such trash are burned by Dickinson every year.

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The new Avery Steel Thresher has everything you want in your next machine; for example—all main shafts, main drive pitmans and belt tighteners are roller bearing equipped (no separator crankshaft)—complete Alemite Zerk lubrication—no inside oiling, hangers or bearings—it threshes faster and pulls lighter—has fewer working parts and only six belts—is longer lived and lower priced. A size for your tractor.

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State Capitol News

THE Armstrong bill providing for optional electrocution or life imprisonment for first degree murder was the most spectacular measure coming before the House during the past week. After three hours of parliamentary skirmishes and oratorical fireworks, the House passed the bill sixty to thirty-five, late Thursday afternoon, February 24. The measure now has been sent to the Senate, where it is predicted the vote will be close.

* * *

Two bills of special interest to the agriculture of the Upper Peninsula were introduced in the Legislature last week. A State Fair to promote the agricultural and industrial interests of the Upper Peninsula would be provided by a measure sponsored by Senator Herbert J. Rushton, of Escanaba. According to his bill, the fair would be located at his home town, and \$50,000 would be appropriated for the land and buildings, and \$10,000 for assisting in the first annual exhibition. Continued state aid to the amount of \$35,000 for the next year, and \$40,000 for the year following, for the Upper Peninsula Agricultural School at Menominee, is provided in a bill introduced in the House by Representative Milton R. Bradley, of Hermansville.

* * *

Besides warring on chicken thieves and unwelcome and trespassing hunters, the Legislature seems determined to make things unpleasant for lobbyists. Both the Senate and the House have passed amendments to their rules specifically debarring all lobbyists from the legislative chambers during the daily sessions.

This action is more or less an amusing bit of stage play, as there isn't much danger that any lobbyist could do any great amount of harm while the members were in session. In fact, some of the most vicious lobbyists are rarely seen inside the Capitol, but do their work from downtown offices and hotels. Even under the new rules a lobbyist can buttonhole a lawmaker to his heart's content right in the legislative chamber, except during the brief daily period when the Senate and House are in formal session.

* * *

Emancipation for local school districts from the domination of the State Department of Public Instruction regarding stoves, furnaces and other heating equipment for schools would be provided by a bill introduced by Representative Denis G. Clancy, of Hillsdale, a representative who is tremendously interested in all legislation relative to education. During the past few years there has been a considerable amount of dissatisfaction among Michigan farmers regarding the activities of the State Department of Public Instruction in condemning heating plants and telling them just how they should be installed, where they should be located and all other details.

In many meetings of Michigan farmers, this matter has provoked lively discussion. Instances have been related where a heating system that was working satisfactory has been ordered removed, and where the new system, installed according to specifications, and at heavy expense, proved unsatisfactory. Representative Clancy's proposal bids fair to be one of the most interesting issues before the State Legislature.

* * *

The Legislature celebrated Washington's birthday by a program given in the House of Representatives Hall on the evening of February 22, at which several short addresses of a patriotic and appropriate nature were given, and a splendid musical program was provided by students from the Michigan State College.

WORLD EVENTS IN PICTURES



Neil Hamilton using a vitalized breathing apparatus; it converts carbon dioxide into oxygen.



King Rama VII recently ascended the throne of Siam amid much oriental pomp and display.



Master Dean Sickle, Florida, has the credit of harvesting the first crop of turnips in U. S. for 1927.



Cornelius Vanderbilt, Jr., \$3,000,000 in debt, works hard and lives modestly to pay his debts.



Master Woodrow Wilson is the proud possessor of twelve blades from salt fish which weighed as high as 1,700 pounds.



J. M. Timmon, of Beauvoir, Miss., 97 years old, is the oldest living confederate veteran.



This "wooden cloth" was made by Hawaiian natives, who strip bark from the trees and hammer it into thin cloth.



The members of the University of California rifle team are all crack shots, having won many honors with the gun.



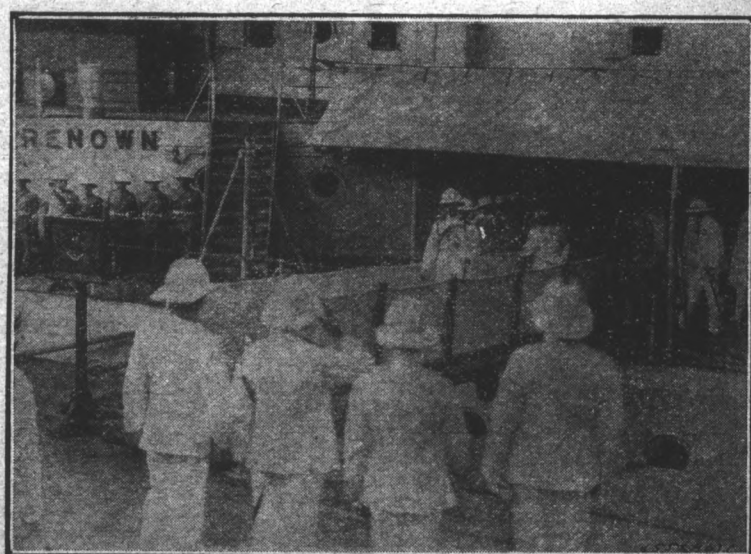
Red Grange autographs foot ball which has signatures of many famous foot ball players.



This pastoral scene is common in the rural sections of Czecho Slovakia, where the old-time shepherds still tend the flocks.



An ex-serviceman made this model on the beach on the coast of Oregon, which he entitled, "Machine Gunners of the Argonne." It is made entirely of sand.



The Duke of York arrived on the British cruiser, Renown, at Panama, to receive addresses of allegiance from the huge British colony there.

BILL also got personal. Everyone knew that big Len Perkins and little Joe Rivers had had a row over a line fence, and that little Joe had knocked him galley-west and crooked, all but spoiling his beautiful Roman nose, so when Len came along and put his hand through the moon Bill was a good while reading. Finally he said, "You have a long life line and will live to be old if you observe one rule. As you journey on beware of Rivers, no matter how small." Len was so sore about it that he wanted to murder the whole Bowers family, for he supposed Tilly was the fortune teller. Of course, she couldn't deny it, so that started a sweet scrap between the two families.

It went on that way for nearly an hour, Bill hitting off one and another in a good natured way, then a big hand came through the moon and after taking a peek I whispered that it belonged to Jim. At that Bill had one of those brain waves that he is famous for.

"Many folks around?" he whispered, fingering Jim's palm.

I took a squint. "Just now there's nobody but Jim and Miss Dirkin."

"There is trouble ahead for you," Bill sing-songed, "grave, grave trouble. Keep your eyes open when dealing with your relatives, especially your newest one." Bill meant that for an honest warning.

Jim drew back his hand and laughed that big hearty laugh of his. "My newest relative? I wonder who that is."

A queer look flashed across Miss Dirkin's face. "Perhaps it is I," she said, smiling.

"You?" Jim laughed. "Then I'll take a chance. Come on, it's your turn. This is for the lady," he said, putting a dime thru the moon.

"I am not sure that I care to hear my fortune," she said, trying to treat it as a joke but somehow failing.

"Oh, yes, you do," Jim said. "Put in your hand." And she did.

"She's white and scared," I whispered to Bill. He said afterward that her hand was cold and damp.

"Madam," he told her, after a minute, "your palm denotes musical ability. . . . Ah, what is this I see? Your future is crossed by a dark man."

She started, but tried to laugh it off by asking, "What does he look like?"

I knew Bill was describing Fitzhugh when he answered, "He is well dressed, tall, dark, with very white teeth."

"We may as well have all the particulars," she said, trying to act careless about it. "What is his business?"

"Madam," Bill said in the same voice, "he is in the piano leg business."

Jim roared at such a foolish answer and they walked away, she behind him, perhaps so he would not notice her white face.

CHAPTER VII

TILLY was back on time and when Bill and I slipped out of the booth by the side door we started home without going into the hall again.

"You sure had a dome light when you told their fortunes," I said.

The Piano Leg Complex

By Merritt P. Allen

Author of "The Wiggins Bond Mystery," "The Spirit of Spencer Spudd"

"That was what you call inspiration," he answered, and I didn't blame him for strutting his stuff a little. "And also an opportune coincidence," he added.

"What's that?"

"Oh, it means a splash of luck at the right time. It was pure luck our happening to be in the booth when they came along. That was the time to fish so I fished."

"You got a rise out of Miss Durkin all right."

"I wish I could have seen her."

"You had her rocking when you told Jim's fortune. When you came out about the dark man in the piano leg business you knocked her cold."

merely going along with Bill to be handy in case he needs me, but I'll admit that his fortune telling stunt perked up my curiosity. I had about come to the conclusion that Miss Durkin had simply run away from home, as girls sometimes do when they want a vacation, and that the police were trying to locate her for the old folks. She didn't look a bit like a criminal or act as tho she had had much experience with crooked stuff. The more I sized her up the more I thought she was a rich girl who had got the earn-your-own-living bug and struck out into the wide and wicked world on her hook. I hoped that was the case and that she would fall for Jim, for with



Bill grinned. "It wasn't such a bad stunt."

"It was a peach," I told him. "It hit her where she lives, and showed that she and Fitzhugh are in together in this monkey business. Her music teaching is all a blind the same as his pretending to be a claim agent." That was the way I had doped it out.

"Quite right, Watson, quite right," Sherlock agreed. "And how did Jim take it?"

"As a joke."

"He appeared to be still illusioned?" he went on, like a book.

"To be still what?" I asked, sticking to English.

"Illusioned. That is, he didn't look as tho he smelled a rat?"

"Lordy, no."

"That's queer, too, for he's no sap-head."

"But he's a hundred and ten per cent in love which amounts to the same thing."

"Maybe." Bill danced around on the sidewalk. "A villain, a beautiful and suspicious heroine and a love-sick fish—by golly, Speck, we've the makin's of a real case."

"It would be more interesting to me," I said, "if we were within a row of apple trees of knowing what the villain and villainess were up to. We don't even know that she is villainess."

"That's what makes it interesting." Bill threw a handful of snow into the air. "We must watch all angles of the case. Mystery, plotting, love, maybe robbery and murder. I'll tell the world this is the life!"

I am no great shakes at detecting,

her money to back him he could buy the store and maybe he would keep a better grade of marbles and peanuts and baseballs. And then, I wanted Jim to have her as long as he was so crazy about it.

SO, like a flock of old ladies at a tea party, I had the other fellow's business all figured out and settled, then along came Bill's fortune telling and knocked my ideas into a cocked hat. It was as plain as a tail on a turkey gobbler that Miss Durkin and Fitzhugh were in snucks on some kind of an under-handed deal. What in the name of fried fish piano legs had to do with it I couldn't see, but they must be mixed up in it somehow or they would not both be so keen on that part of it. I had thought that perhaps, after all, there was nothing in the way she had squinted at the underpinning of Rupert's piano, but when I saw her go white at the mention of a dark man in the piano leg business I knew there was more in this than meets the eye, as Bill is always saying. Fitzhugh was a bad egg and it looked as tho Miss Dirkin, tho she might be the oyster's ear muffs for looks, was not the guaranteed all wool angel that Jim thought she was. Poor Jim. And yet, what could we do about it? You might just as well offer advice to the north wind as to a man in love. We could only stand by.

So we stood. The next morning on the way to school I met Miss Dirkin. She was still pale, the circles were larger under her eyes and, if I didn't miss my guess, she had not slept the night.

She stopped me. "Sonny," she asked, for she didn't know me from Adam tho, as the fellow said, I was dressed differently, "were you at the hall last night?"

I told her I was, wondering if she was onto the game.

"Do you happen to know who the fortune teller was?"

"Tilly Bower." There was nothing else to say as I had promised not to let Tilly down.

"Where does she live?"

"In that yellow house."

"Thank you."

"Did you have your fortune told?" I asked her in a friendly way to see how she would act.

"Oh, yes."

"How did you like it?"

"It was quite amusing." She fussed with her coat collar. "Why do you ask?"

"I heard some folks were sore."

"Really? How silly."

"You see, Tilly got sort of personal with some of them."

Miss Dirkin laughed, but she was interested up to the handle. "With those she was well acquainted with, I suppose. I can appreciate the temptation. Obviously Miss Bower is not a genuine fortune teller."

"She never worked at it, but she has pretty good luck."

"You don't mean people take her seriously?"

"Some do," I answered, which was the truth.

"How interesting!!" Miss Dirkin's eyes were larger. "Then she really has a reputation?"

"Sure thing," I told her. "And it's growing fast."

"How cold it is this morning." She shivered a little and walked on.

Maybe I had strung her more or less, but I had told her no lies and her actions showed beyond a doubt that the fortune telling was rocking her boat. I felt that I had, as the books say, advanced the case considerably. Bill agreed when I told him about it at recess.

"Important developments loom in the offing," he said grandly.

"Where?"

"In the offing. That means just around the corner."

Maybe so, for when we turned the corner on our way home to dinner, after getting the mail and watching a dog fight and doing a few other necessary things, there was Tilly Bower. As I said, she is about eighteen years old and you would have thought by the way she talked that she had spent sixteen of those years waiting for us to come along.

"My goodness!" she opened up. "Why didn't you wait until tomorrow before you went home today? I'm most frozen to death. I'll be late to dinner and Ma'll want to know where I've been and what'll I tell her?"

"Tell her a lie as usual," Bill said.

"I don't lie," she said, stamping her foot. "But you kids do."

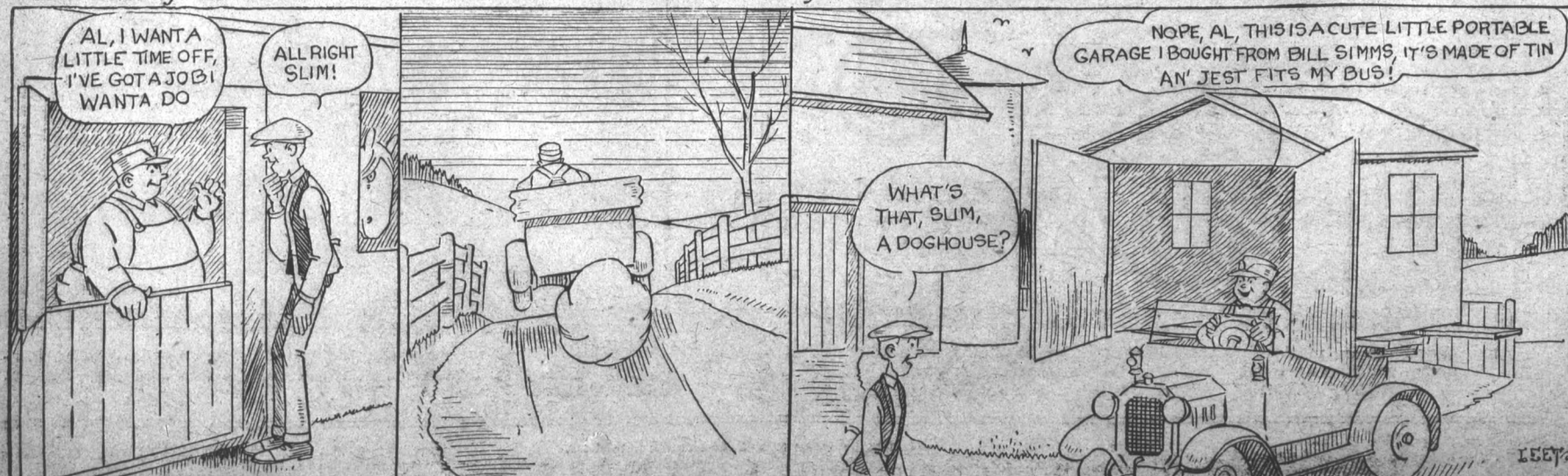
We began making snowballs.

"Don't you throw one of those at me," she cried. "You've been mean enough already."

"How do you get that way?" I want-

Activities of Al Acres—Slim's Fliver Like the Snail Can Carry Its House On Its Back

Frank R. Leet



ed to know. "What do you mean?" "You know what I mean. What did you stuff that music teacher with last night?"

"Did she eat too much?" Bill asked, as innocent-looking as Mary's lamb on Sunday.

"We didn't wait on table," I put in, not wanting to miss a chance of stirring up Tilly.

"I don't mean she ate—"

"But," Bill cut in, "you said she was stuffed."

"Jim said she's a doll," I said. "Maybe she's stuffed with sawdust."

"Oh, my gosh!" Tilly was no longer cold. "I want to know what lies you told her last night when she thought I was telling her fortune."

WE were serious at that. "How do you know we told her anything?" Bill asked.

"Because she has been to see me this morning. She is all upset. Honest, kids, she almost cried. She wanted to know how I knew what I told her last night. I couldn't tell her I wasn't there, could I?" Tilly giggled. "So I just told her that fortune tellers never know how they know things."

"Did she believe that?" I asked.

"Yes."

"Then let it go at that."

"I can't. I've got to know what you told her because—it's ridiculous—but she wants my advice about her future."

"You're kidding," I said. Bill was thinking.

"I'm not. She thinks I'm a real fortune teller, that I've got a gift or something." Tilly looked at us and waited.

"What did you tell her?" I wanted to know. Bill was still thinking.

"What could I tell her? I had to stall some way so I said I would think it over and let her know this afternoon. You've got to help me out of this scrape."

"With pleasure, my dear." Bill came out of his trance and threw down his snowballs. "I told her that her future was crossed by a dark man who is in the piano leg business."

"Oh, my soul!" Tilly cried.

Bill said, "You read her palm again this afternoon."

"But I don't know how."

"Bluff."

"I'll have to."

"Tell her you can still see the dark man carrying a piano leg. If she needs help she is to go to her newest relative. Get that? Her newest relative."

"What does that mean?" Tilly asked.

"I didn't say it meant anything. But it makes sense with what I told her last night. Your story's got to hang together, hasn't it?"

"Yes; but I'll feel like a fool saying that."

"You'll feel more like one if your folks find out where you were last night, won't you?"

"Yes, oh yes. All right, I'll tell her that. Anything more?"

"No; she'll be satisfied."

"I hope so. Thanks. I'll be late to dinner." And away she went.

"Well?" I said to Bill.

"Great stuff, Speck!" he whooped, dancing around.

"You want her to tell Jim what she is up to?" I guessed.

"She'll have to sooner or later at the rate things are going. And, besides, she can trust him. It looks as tho there would be a showdown sometime and when it comes Jim is her best bet. What other advice could we give?"

"Darned if I know," I said.

Tilly told us the next day that Miss Dirkin took the rest of the fortune bunk as seriously as tho she, Tilly, was a gilt-edged prophet with whisks instead of a silly skirt with a head full of flapdoodle. Tilly didn't say exactly that for, like every other girl, she thought she was the cutest kid that had come down the pike since Adam's rib began to talk. Queer how

people get that way—I mean Miss Dirkin. To all appearances she was bright enough and yet she was running in circles because of what Tilly had told her. Of course Tilly, that is Bill, had done some powerful sharp shooting, but unless she had been upset she wouldn't have taken it so to heart. All of which goes to show what it goes to show.

But, at that particular time, Deacon Brown's first wife's second cousin's aunt across the lake was more upset, for she died, and the Browns went to the funeral. Mrs. Brown, being Cash's sister, he was to look after their fires and Rupert was to stay with us, so it was not altogether the cousin's funeral. But never mind, that evening when we were ready for supper Cash came up the walk so skippy that Scotty barked at him. He threw open the door and came in singing "Annie Laurie," Cash, not Scotty.

(Continued next week.)

BY-THE-WAY.

Thermo—"That was a cold recitation."

Meter—"How's that?"

Thermo—"My mark went way down to zero."

Teacher—"Can you spell avoid?"

Hans—"Shure, wot is de void?"

MONEY TALKS



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PUBLIC preference chooses the inimitable Chrysler "60"

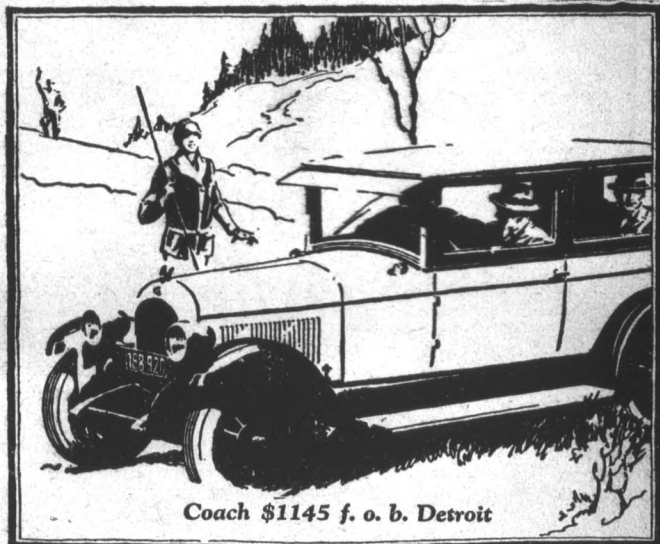
ONE of the most convincing proofs of Chrysler "60" superiority is trying to match its features in any other six of its type and price.

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It is for this fundamental reason that the Chrysler "60" has been accorded a public preference that



Coach \$1145 f. o. b. Detroit

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CHRYSLER CORPORATION OF CANADA, LIMITED, WINDSOR, ONT.

CHRYSLER "60"

CHRYSLER MODEL NUMBERS MEAN MILES PER HOUR



How to Paint Your Furniture

Sandpaper Each Coat to Obtain the Best Finish

By Francis W. Henry

PAINTED furniture is one of the most interesting of the modern decorative revivals. The old solid wooden chairs and tables of our grandmother's day when treated with present-day paints are far more beautiful than when in their original dress for the very reason that paint can now be bought in a far greater variety of colors and tints. When these pieces have been restored, we can better appreciate the sturdy character of our ancestors and the utility value of the furniture and furnishings handed down by them.

There is much need of more color in the modern home. When selecting the pieces to be repainted, keep in mind the fitness, usefulness and comfort of the several pieces. Also remember that simplicity should be the keynote. For this work do not select ornate or richly upholstered pieces. Carelessness in this and the selection of the wrong color will spoil the entire appearance of the room. In the selection, decoration and arranging of the pieces let the dominant note be livability, plus convenience and charm.



"It Won't be Long Now, 'Fore I Can Do This Again," Says A. E. Luther, of Grand Rapids.

As to the methods to be employed by the amateur decorator, man or woman, first repair the pieces with prepared glue, brads and screws as skillfully as you know how. Or in the event that the job is beyond you, have some local craftsman do it for you. Clean off the old finish by applying liquid paint or varnish remover according to the printed directions on the can. Then wash the surface well with turpentine. When thoroughly dry, sand the entire surface smooth with No. 1 sandpaper and dust it off well. Now apply a coat of the intended color over the entire surface with a flat two-inch brush. Allow this to dry for at least thirty-six hours and then sand the painted surface lightly with No. 0 sandpaper. This is done to remove all air and dust balls.

You are now ready to stop up all holes and splintered places, nail and screw holes. Do not use putty for this purpose as painters usually do, for it shrinks in drying and frequently falls out. In its stead fill all such places with common sealing wax, applied by heating an old knife over a tallow candle. Smooth the wax level with the surrounding surface. Apply your second coat over the entire surface and as many more coats as necessary.

Always allow at least thirty-six hours between coats for drying. In

order to obtain a perfectly smooth finished job, always sand each coat lightly with No. 0 sandpaper before applying another coat.

How to Apply the Decorations

This can be done with artists' paint by free-hand drawing, by the use of stencils or by applying the transfer designs. If you cannot get these materials locally send to some artists' supply house or to any of the large mail-order houses. The easiest to apply are the transfer designs. Printed instructions for applying are furnished free with the designs. After the designs are applied and allowed to harden for at least twenty-four hours, coat the entire surface of the work and the designs with one or more coats of white transparent varnish so that the designs will have protection from wear and cannot easily be rubbed off. A breakfast set of four chairs and table painted in gray with the turned member on the legs and with the edges of the seats and the edges of the table leaves trimmed in robin's-egg blue is a color combination that is very pleasing. When walls are of gray and woodwork in a deeper shade, hall tables and settees in almost every color—jade, old blue, mulberry or Chinese red—create a note of cheer and spar-

kle to breakfast nook, library or living room. Gate-leg tables with flower designs of mulberry color and a border line in dull yellow—end tables with jade green legs, console tables in gray, red or mulberry are beautiful for any hall, as are Boston rockers, or Penna-German fanbacks. Drop-leaf tables—sturdy chairs, can be painted in color to suit any taste or decorative plan.

PLAN A KILLARNEY PARTY.

THE seventeenth of March is becoming a popular day for entertaining one's friends, and no more charming table arrangements can be conceived than those befitting that day.

The bright green that connects itself with the Saint of Lovers, as he was first counted, may be carried out in wall and table decorations, in favors or caps to be worn by the guests, in prizes, and even in the menu itself.

For the center of the table a representation of the Lakes of Killarney is not difficult to arrange, using mirrors of various sizes, their edges covered with moss and bits of shamrock. The shamrock idea is also carried out in the candle shades. The place cards

may be of green and white, ornamented with a shamrock. The favor boxes should be filled with green and white confections. Fancy green caps can be secured in almost any novelty store and add a touch of festivity.

Another scheme for table decoration takes the form of a horseshoe covered with green ivy, for the center of the table, and from it green ribbons leading to smaller ivy horseshoes at each plate.

In serving the dinner, garnish every possible dish with parsley. Irish flags may be thrust into each serving of fish, green vegetable coloring may be added to the cheese (cottage), and a tapioca pudding may be given a charming green color by adding mint coloring. Green frosting on a white cake, and sandwiches tied with narrow green ribbons, are among the possibilities for the St. Patrick's day table.

When inviting the guests for an evening entertainment, it is novel to ask them to "Plaze ripresent the Ould Sod in costum'," and the formal first few minutes that every hostess dreads become the merriest of the occasion as each guest discards wraps and steps forth in Irish array.

An Irish potato race, each contestant being allowed three potatoes from a basket tied with green ribbons, and a wooden spoon. The contestants must place their potatoes on the floor, juggle them into the spoon and carry them to the opposite side of the room without touching them with their hands. If one rolls off he must replace it without use of his hands. St. Patrick's Day favors make appropriate prizes.

Whether the party be large or small serve tea. As it is served, it is explained that each must turn the last few spoonfuls into the saucer and drink it from there, making a "fortune" with the grounds in the cup. A fortune teller, wearing a long green cloak and a green mask, passes among the guests, telling fortunes from the tea grounds as the cups are presented to her.

If dancing follows, Irish jigs and reels should be included. Irish songs and airs may be played on a phonograph.—L. M. T.

HOT PADS AND HOLDERS.

THESE are very useful combinations which will appeal to the housewife from every standpoint. A holder, as shown by the illustration, with three pads is furnished. These pads are of good heavy colored suiting, completely made and bound. Em-



broidery designs shown are simple, and can be easily worked with very little effort. This complete set sent post-paid on receipt of sixty cents. Order by No. 2262 from the Stamped Goods Dept., Michigan Farmer, Detroit, Mich.

Pantry Preparedness

By Hazel B. Girard

EMERGENCY shelf—that simple utterance would have caused our beloved, becaped, beruffled grandmothers to have raised their hands in sheer desperation and ejaculate: "Land sakes! What kind of a new wrinkle is that?"

And those immaculate housekeepers of yesteryear would have been justified in their reproach. Was not their pantry a veritable horn of plenty for the home circle and the unexpected guests who came by the half dozens?

The two-gallon cookie jar behind the pantry door made suave curtsies at all times of day; and I doubt not that when twilight had blossomed into shades of night that the kiddies sat around the long dining room table with an oversized Juicy Pippin in one hand and a home-made ginger snap in the other. But the present high cost of living puts those days of blessed plenty in the catalog of "Once upon a time."

There is no more pathetic experience that comes to the housewife than a replica of Mother Hubbard's celebrated disappointment. And even down on the farm, there are times when the fruit supply is exhausted; when the supply of vegetables, both canned and raw, gets low. At such a time the "company shelf" proves itself a worthy friend.

If the meat portion of your meal is insufficient, a soup will do wonders to pad the meal—and certainly, they are hasty without giving themselves away. Either the "boughten" soups or the home-made ones are a toss-up. A can of baked beans put through a sieve, thinned and seasoned, make a simple but tasty soup. Milk can be added to canned vegetables—such as

corn, and a cream soup will result. Even the soup itself may be "stretched" by the addition of bouillon cubes or beef extract.

Vienna sausage is a cherished standby. When heated and banked around a generous mound of foamy mashed potatoes, they are most appetizing. A rich gravy adds the touch of completeness to this menu. A wealth of possibilities are contained in a can of dried beef, shrimps or clams. Canned corn takes on a "company look" as scalloped corn or corn pudding.

Some folks are decidedly clever at concocting last-minute salads. Almost any kind of canned fish makes a delicious salad when built on a foundation of lettuce leaves and crowned with mayonnaise. The diced pineapple lends itself to this particular negotiation. Or even the lowly cole slaw takes on an erudite touch when sprinkled with chopped walnut meats.

Then comes the dessert that makes or breaks a meal. A "good ending" does help a lot to leave a pleasing impression on one's mind—and palate. A can of peaches snowed over with marshmallow creme or honest-to-goodness whipped cream will give a good finishing touch. White cherries or apricots never need an apology.

Each housewife will know and find new things that are especially adapted to her making. Once you have learned the sense of preparedness that goes with a "Company shelf," you will deem it a permanent fixture. When one member of the shelf family is gone, it should be replenished immediately—and as a school boy would say: "You'll be sittin' pretty!"

NEED MORE THAN APPLE A DAY.

AN apple a day isn't the only thing that keeps the doctor away! Another good way to ward him off is to eat daily two vegetables besides potatoes or dried beans. Cabbage and carrots are especially beneficial when eaten raw, but many of the other vegetables need to be cooked.

Cooking vegetables to get full returns in flavor and food value is a fine art," declare home economics specialists. Here are some of the methods that expert cooks use in vegetable cookery.

Don't Overcook!

Vegetables should not be overcooked. Take them up as soon as they are done. Overcooking of vegetables is an unnecessary loss of mineral salts and vitamins. It also injures the flavor and color.

In boiling vegetables use only enough water to cook them without burning. Water dissolves mineral matter and vitamins, and an excess of water means unnecessary loss of these important nutrients. Water in which vegetables have been cooked can often be used in making gravies, soups, broths and sauce for the vegetable. Do not soak vegetables in water before cooking, any longer than is necessary.

When vegetables are cooked in large pieces there is less waste of nourishment than when they are cooked in small pieces. Time and labor can also be saved by cooking vegetables whole and dicing them when cooked. People who do not care for carrots in large pieces will often eat them when they are chopped fine. Less nourishment is wasted when vegetables are cut lengthwise before cooking than when they are cut crosswise.

The portion of a vegetable which lies directly under the skin contains important nourishment. It is often desirable, therefore, to cook some vegetables in their skins and peel them after cooking, as for example, carrots, potatoes, and parsnips.

The use of soda in cooking vegetables has been found to destroy part of the vitamins. Soda is not necessary in cooking vegetables.

Releasing Flavor.

Cooking in uncovered vessels is sometimes advisable with strong flavored vegetables, such as onions, as this method allows part of the flavor to pass off in the steam. Vegetables of delicate flavor, such as peas, should always be cooked in covered vessels to retain their flavor.

There is usually less loss of nourishment by baking and steaming vegetables than by boiling them.

The flavor of all vegetables is improved by cooking them with salt. The addition of a little sugar before serving improves the flavor of most vegetables.

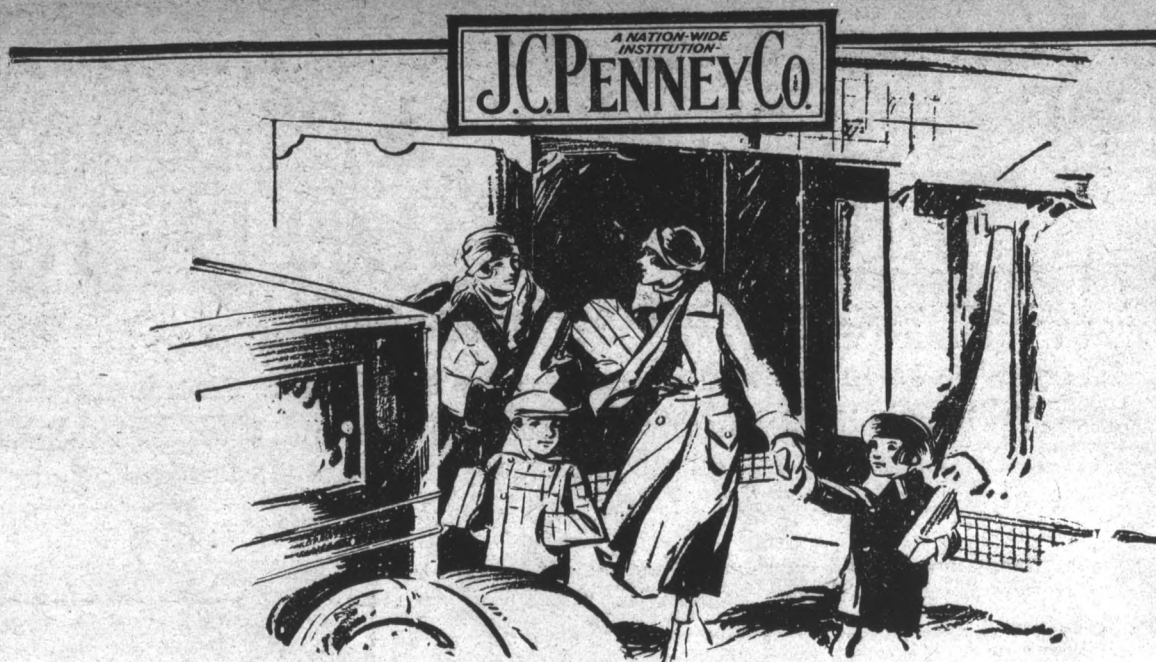
SURPRISE MEN FOLKS WITH BAKED SALMON.

MY husband is one of the many men who do not like canned salmon. Recently I served this dish to a gathering of men, and each one finished his serving, some taking a second serving. My husband declared it the best salmon he ever tasted, and he seldom cares for croquettes or loaf.

1 cup salmon, flaked.
with bones removed.
3 eggs or 6 yolks (when making angel food)
2 cups milk
1 tsp. onion juice
1/4 tsp. celery salt
1/2 tsp. salt
2 tsp. butter
1/4 tsp. kitchen bouquet

Beat eggs and add other ingredients. If you prefer, canned corn may be used in place of salmon in this dish. Bake in slow oven till set. Cover with buttered bread crumbs and brown, in the last few minutes.

Sweeping oilcloths and linoleums wears them out as much as walking on them. An oiled mop or drp mop is much better to use on them. A coat of wax frequently applied to them helps to preserve both oilcloth or linoleum.—A Farmer's Wife.



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Rheumatism, tonsillitis, lumbago, coughs and colds are all symptoms that call for Musterole.

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The Federal Life Insurance Company has paid to the following claimants weekly accident indemnity for travel accident injuries they sustained as set forth by the terms of our Federal Travel Accident Policy.

Here is the Protection this Policy Gives:

Pays \$7,500 For loss of life, sustained by the wrecking or disablement of a railroad passenger car or street, elevated or underground railway car, passenger steamship or steamboat, in or on which the insured is traveling as a fare-paying passenger; or for the loss of hands, feet or sight as specified in policy.

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Pays \$2,000 For loss of life sustained by the wrecking or disablement of any vehicle or car operated by any private carrier or private person in which the insured is riding, or by being accidentally thrown therefrom; or for the loss of hands, feet, or sight, as specified in policy.

Pays \$1,000 For loss of life by being struck or run down while on a public highway by any public or private vehicle; by being struck by lightning; by cyclone or tornado; by the collapse of the outer walls of a building; by drowning at a public beach where a life-guard is regularly stationed; by the burning of public buildings in which the insured shall be at the beginning of the fire; or the loss of hands, feet or sight, as specified in policy.

Pays \$10 WEEKLY For a period of 15 weeks for injuries sustained in the manner described above and specified in policy.

All specific losses shown in policy increase 10 per cent each year for five years (except this weekly indemnity).

Ask Our Salesmen About this Big Family or Group Offer

Each Michigan Farmer salesman is licensed by the State Insurance Commission to collect your premium and forward your order to this office. Ask him about this sensational protection when he calls; or take advantage of our Family offer as listed below, and send your order today.

This protection is available to each member of the Michigan Farmer family who is a paid-in-advance reader of Your Own Home Farm Weekly for the period of time the policy is in force.

You can renew your policy each year that you are a paid-in-advance reader for \$1.00 renewal premium, as long as you desire to keep the insurance in force.

A total of Three Thousand Six Hundred and Seventy-seven dollars and Eighty-five cents has been paid to Michigan Farmer policy holders to date

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This policy covers you whether you are traveling on business or pleasure. It is not a complete accident policy, but gives you exceptional travel accident coverage at our group or family plan price of \$1.00 a year.

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\$1.00 Per Year is the Total Cost

If you are not a paid-in-advance reader, \$2.50 will give you Michigan Farmer five years, or 260 issues, and cover the cost of your insurance policy, giving you protection for one year. Michigan Farmer has been regularly one year \$1.00. Five annual subscriptions would have cost \$5.00. Remember this Family Offer gives you Michigan Farmer 5 years and one year insurance protection. Note the saving.

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The Federal Life Insurance Company of Chicago, Illinois, paid the amount on the dates stated, to the following Michigan Farmer readers:

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Dale E. Beck, Ithaca, October 20, 1926.....	22.86
Mary B. Rush, Alma, October 26, 1926.....	27.14
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I certify that I am a paid-in-advance reader of The Michigan Farmer, more than 10 years and not over 70 years of age, that I am neither deaf nor blind, and that I am not crippled to the extent that I cannot travel safely in public places, and hereby apply for the \$7,500 Travel-Accident Policy in the Federal Life Insurance Company, issued through The Michigan Farmer.

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Telling the Good News

Our Weekly Sermon—By N. A. McCune

IT is a good idea to remind ourselves that gospel comes from two words, God, or good, plus spell, or story. It is the story of God, or the good story, good news. Do you recollect the little poem of Browning, "How They Brought the News from Ghent to Aix," in which the fleet horse, covered with foam, when almost at the city gates, fell dead? He was bringing good news. And the story of how the Liberty Bell in Philadelphia rang until it cracked, for joy? The good news of Christ has all these meanings. It is good news that can be heard nowhere else.



When Philip went to Samaria he was in times before, a hard place. When the exile had taken place, the poorer Jews had been left behind, and along with them, foreign soldiers and peasants. These had intermarried, and each had absorbed some of the other's religion. The result was a religion that was not Judaism nor paganism, but a mixture. The Samaritans accepted (and still accept, for there is still a tiny colony of them, almost extinct, for they have refused to marry with outsiders), only the Pentateuch, rejecting all the rest of the Bible. They also asserted that the only place for worship was Samaria, while the Jews claimed that Jerusalem was the central spot of worship. And on this the two never agreed. The Samaritans had been known to kill Jews who were on their way to the passover, at Jerusalem. They were a fiery lot.

To the capital city of the Samaritans goes Philip. It was a hard place to work. But Philip was wise. He did not argue about religion, nor claim that Jerusalem was the only proper center of worship. Not he. Promptly does he announce Christ as the Savior who can save from sin, make the soul new, and bring joy into human life. He heralds Christ, he does not argue religion. He recognized the good points in the religion of the Samaritans, just as the modern missionary recognizes the strong points in the religions where he goes.

And this is the best method of getting into the hearts of moderns in other lands. In addition to that, Philip lived in a consistent way, in Samaria. The best gift of the West to the East, we are told, is the life of the missionary. The Chinese and the Indians and the others have their own civilizations, but they need the lives of men and women actuated by the motives of Christ. Said a Hindu to an American missionary not long ago, "I want to be a Christian, but I do so in spite of the lives of the Europeans I have seen here. They seem to have two loathings—one is religion, and the other is water for drinking." This was said in the Straits Settlements, where nearly every European planter has his native concubine.

In a certain city in Asia, two Europeans had been killed. The Hindus buried them, and wished to make an offering to the spirits of the dead. So, after thinking the matter over, thinking that they would love in death what they had loved in life, came and placed on the tomb a cigar box and a whiskey bottle. It is what goes on in America that is the embarrassment to the missionaries. Time was when no one over there knew anything about America, but supposed that everybody was as law abiding and religious as the missionary. That day is past. "Don't you have corruption at your central government in Washington?" asked a native one night of a missionary. (Oil was flowing freely at the time, in Washington). "Don't you

lynch negroes in America?" asked another.

Well, to come back to Philip. He did not have any such embarrassments. If the brethren in Jerusalem were living inconsistent lives, there was no wireless to let the Samaritans know it, and Philip's message was unhindered.

"They gave heed with one accord to the things that were spoken by Philip." This was another secret of what took place. The people were not so busy but what they could think on the head. Devils were cast out, and "there was much joy in that city." Devils must be cast out, now. It is beginning to be known that there is often a direct relationship between religion (or the lack of it) and insanity. Studies are being made of this in asylums. Conversion is cure, and holiness is health. Demonology is not wholly out of date, as people once thought it was. What of the demons of envy, of hate, of violent temper, of brooding sexual passion? Are not these veritable devils, that beat and rage within human hearts?

Paul says that he did not have to do what he did, but that the love of Christ constrained him. That word constrain is interesting. It comes from a Latin word, and means to hold tight. The love of Christ holds us tight, if we have it. It leads us, steadies us, keeps us from falling, gives us strength and courage and guides us in the right way. Such a condition takes away the lack of energy, the weariness, the "I've got to, whether I want to or not" spirit. In the morning when the farmer goes to the barn the dog barks and jumps up on him, to show his delight. He does not do that because he has to, but because he wants to. His affection for his master constrains him, and he cannot help it. His inner joy must express itself. The love of Christ ought to constrain us, as naturally and irresistibly as that.

SUNDAY SCHOOL LESSON FOR MARCH 6.

SUBJECT:—Sharing the good news. Acts 8:4 to 8, and II Corinthians 5:14 to 20.
GOLDEN TEXT:—Acts 1:8.

RURAL HEALTH

By Dr. C. H. Lerrigo

WANTS TO REDUCE.

I am too fat and would like to reduce about twenty-five pounds. Please tell me of some harmless drugs that may be used to reduce weight.—K. K.

There are no drugs in the desired class. Sometimes a doctor who is able to watch his case carefully may find that he can help the reduction process by giving certain drugs that will suit the particular patient under observation, but there are no drugs that are safe for anyone and everyone to take as weight reducers. The way that is safe is to reduce the fats and sugars in your diet and bring down the total amount of your food intake by about forty per cent.

TAKES COLD EASILY.

My nose is all stuffy, my throat is often sore, and I get "flu" whenever it is around. Take cold very easily. Do you suppose my bad nose has anything to do with it?—S. L.

It is quite likely that a decided connection exists between your nose and throat trouble and your recurring "colds," or influenza. The probability is that you have enlarged turbinates, which require operative treatment. Quite likely the work can be done by a skilled specialist under local anesthesia. Go to a first-class specialist in nose and throat diseases.

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THE regular Kelly-Springfield tire is built now, as it always has been, for the man who is satisfied with nothing short of the best the market affords.

For those who do not need the extra durability of the regular Kelly product, but who do want to get real value in a lower priced tire, Kelly builds the Buckeye, a sturdy, full-ply, full-size tire that compares favorably with many other tires offered at higher prices.

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One of the largest, most successful companies in Detroit, owned and operated by men who were farmer boys, will teach you salesmanship, without charge, by actual demonstration, personal selling and public speaking and will employ you when you qualify.

If you are between the ages of 18 and 40, married or single, and able to finance your transportation and one month in Detroit—write today.

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Most of America's Greatest Executives were once Farm Boys

CATCH FISH EASY WAY!

TRAP & BAIT FREE

Catch Fish by the Dozens. Also Weasels, Mink, Muskrats and many other fur-bearing animals, with my New Folding Galvanized **STEEL WIRE TRAPS**. They catch them like a fly-trap catches flies. Made in all sizes. Big money makers for trappers and fishermen. Write for Descriptive Price List, Free Trap Offer, and my Free Formula for making best bait known for attracting fish and animals.

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Grown From Selected Stock—None Better—57 years selling good seeds to satisfied customers. Prices reasonable. Extra packages free with all orders. Large catalog free. 700 illustrations of vegetables and flowers. Send for it

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Michigan accreditation provides Competent Inspection of all flocks, hatcheries and chicks for 117 member hatcheries of the Michigan Poultry Improvement Association, furnishing Michigan Accredited or Certified Chicks and Eggs of known high quality. All inspection under supervision of Michigan State College.

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Every breeder approved by authorized State Inspectors.

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Try chicks this year from Silver Cup Winner. The above winning made Dec. 1926 in Production and Exhibition classes in strong competition. The males and their brothers are among those heading our matings this year. We are the oldest hatchery in Western Michigan. 25 years in business. Have made as many winnings in the last five years as any other hatchery in Western Michigan. Our free catalog and price lists tell all. A trial will convince you.

MEADOW BROOK HATCHERY, Box F, HOLLAND, MICHIGAN.

\$1064 Egg Revenue From 680 Unculled Pullets In Seven WEEKS

One customer reports this splendid return from our April hatched Grade A White Leghorn Chicks, Nov. 1 to Dec. 19, 1926. This is a fine, but not unusual record for our regular stock. 750 surplus cockerels raised from his 1000 chicks also gave him additional revenue. Our hens now leading Michigan and Oklahoma Contests are birds of similar breeding. All our stock blood-tested, and every breeder on our own farm trapped from its first to last egg. All birds have been handled, passed, Leg-banded and CERTIFIED by the Michigan Poultry Improvement Association. Write at once for Price List and FREE Catalog on Baby Chicks and Hatching Eggs.

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DUNDEE MICHIGAN ACCREDITED CHICKS

Every breeder approved by State Inspectors under supervision of Michigan State College. Blood tested for White Diarrhea for the past three years. Three leading breeds, B. P. Rocks, R. I. Reds and English and American Leghorns. 100% live delivery. Write for free catalog and price list.

THE DUNDEE HATCHERY
Box A, DUNDEE, MICHIGAN

HOLLAND HATCHERY

It will pay you to investigate one of Michigan's oldest and best hatcheries. Nineteen years' experience. Every chick hatched from rugged, free range breeders officially accredited by inspectors supervised by Mich. State College. Large percentage of business to satisfied old customers. White Leghorns (English and American), Barred Rocks, Anconas. Your Mich. Accredited Chicks bought of this old reliable concern with an established reputation for square dealing are sure to please. 100% live delivery, prepaid. Get our new FREE catalog before placing your order.

VAN APPELDORN BROS., HOLLAND HATCHERY & POULTRY FARM,
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MICHIGAN ACCREDITED CHIX

HILLCROFT FARM--ACCREDITED LEGHORNS

are bred from high production strains. Our breeders have been inspected and approved by inspectors supervised by Mich. State College. The statements in this ad have been O. K'd as truthful. Order at below prices in complete confidence:

	25	50	100	500	1000
S. C. Wh. Leghorns	\$3.75	\$7.00	\$13.00	\$62.00	\$120.00

We guarantee 100% safe arrival. Send for free catalog. It's new. Ref. Coopersville State Bank. Member Mich. & International Baby Chick Assn.

HILLCROFT FARM, BOX 31, COOPERSVILLE, MICH.

PROFIT PRODUCING CHICKS

MICHIGAN ACCREDITED CHICKS that are bred from proven blood lines. Every breeder wears a sealed leg band indicating official approval by authorized state inspectors.

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. Choice of three profitable breeds. 100% live delivery guaranteed. First hatch Jan. 31st.

BRUMMER-FREDRICKSON POULTRY FARM, BOX 20, HOLLAND, MICH.

CHICKS

Michigan Accredited Chicks—
White Leghorns a Specialty—also best strains of Barred and
White Rocks, R. I. Reds, White and Silver Laced Wyandottes,
Anconas. Expert selection of breeding stock, together with
scientific incubation methods, assure husky, liveable chicks.

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Established 1911—Free Catalogue—

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"BUY ASELTINE QUALITY CHICKS FOR 1927"

You Can Buy High Quality Production **BARRED ROCKS WHITE LEGHORNS**

From all blood tested stock for four years. All stock Michigan Accredited. Every nest on our farm is a trapnest. All males used from known high blood lines. All females inspected and males banded by M. S. F. I. Inspector.

Customer reports 2,000 eggs in January from 100 of our pullets. Blood will tell. If you really want good chicks that will grow into very profitable layers at a fair price, write today for our instructive and descriptive circular.

ASELTINE POULTRY FARM, Burlingame Station, GRAND RAPIDS, MICHIGAN.
L. W. ASELTINE, Mgr. and Owner.

POULTRY

The Modern Poultry House

Ferguson Discusses its Essentials

MR. C. M. FERGUSON, Manager of the International Laying Contest, discussed poultry housing problems at the Farmers' Week meetings and brought out the following interesting points. The Michigan poultry house with the windows in the roof was designed before ultra-violet rays were known to help poultry. The glass filters them out and it is difficult to open roof windows.

The Michigan shed type poultry house which is described in Extension Bulletin No. 48 is cheaper and easier to build than the house with the roof windows. In planning the glass in a poultry house, it is a general rule to

lice are not apt to become established in such a loft as the straw becomes very dusty and it is too far from the birds. Even mice and rats do not like the conditions in the straw loft and seldom nest there due to the large amount of dust which gathers in the straw. The straw loft must not be sealed below or its value is lost. The circulation of air is necessary. The straw can be changed in the fall and new straw blown in at the time of threshing if the grain can be threshed near the poultry house.

It is best to line poultry houses if you are located in a section where the temperature goes down to ten below zero for many days at a time. Southern Michigan houses do not usually need lining except around the roosting platform. Curtains in front of the roosts are not needed as it is too much like sleeping with your head under a blanket.

In commercial poultry plants the flock units should not be less than 100 to 150 birds. A unit of 500 birds is fine on the commercial plant managed by skilled poultrymen. Large flocks are in greater danger from a disease like chicken-pox. If a disease breaks out in one house it can often be controlled by a rigid quarantine of the infected flock. If a bird in one of the laying contest pens should develop chicken-pox the entire pen is isolated.

A man can care for 1000 hens and brood his own chicks but much depends on the man and the arrangement of the plant. One man can handle 5000 chicks with experience and proper equipment.

One of the best kinds of lumber for the siding of a poultry house is six-inch matched flooring running up and down. This does not readily warp apart and usually makes a tighter wall than the drop siding nailed horizontally on the uprights. Ship-lap covered with roofing paper with the seams sealed also makes a fine tight side wall on a poultry house. Tar paper still gives good satisfaction between the two layers of cement in a poultry house floor and keeps the floor dry. It is found that the glass substitutes do permit the violet rays to enter. Mr. Ferguson has been using a glass substitute for four years on his own plant and the material is still in fairly good condition and has given satisfaction.—R. G. K.

FEEDING THE BABY CHICKS.

A FEW details of chick feeding, if carefully followed, save much loss later on. Feed first when about sixty hours old, and feed just as soon as the chicks are put into the house. It is assumed that the all-mash ration is being fed. For the first two or three days, they should be fed on paper pie plates or newspapers, making sure that feed is before them all the time. Allow one pie plate for each twenty chicks.

On the second day, the mash should be put into small wooden troughs thirty inches long, four inches deep and six inches wide. A loose fitting strip of half-inch gravel screen is placed over the feed and the chicks allowed to hop on top of it and feed down through the screen. This keeps them from scratching it out. There should be at least one of these troughs for each fifty chicks. The feed in the troughs should be stirred three or four times a day while the gravel screen is being used, and by all means keep the troughs filled. To let them get

An Early Enthusiasm Should Qualify One For Poultry Success.

allow one square foot of glass to ten square feet of floor space. Too little glass means a dark house. Too much glass means you will have greenhouse conditions during sunny days followed by a very cold house at night. The extreme difference in temperature between the day and night conditions is not good for the hens.

Windows in the back of the house help in keeping the litter evenly distributed as most of the hens will face the light when scratching and kick the straw backwards. About three cellar sash to each 20 foot section is about the right combination for rear windows. The cellar sash are double glazed which makes them warmer.

In building ventilator flues, it is found that capping with either stationary or revolving caps tends to increase the flow of air. The ventilators should be 16 inches square, and extend from a point about 15 inches above the litter to a point above the roof high enough to make a draught. When ventilators only 10 to 12 inches square were used, they did not move enough air. A hinged side in the ventilator near the roof can be used to let out the heat in summer.

The intakes in the house are in the front and there is no direct draught. The air is slightly warmed before it reaches the birds. There are also ventilators in the back of this house. Both the north and south windows can be taken out in summer to permit a large movement of air through the house. The window openings should be screened to keep out the sparrows as much as possible as they are disease carriers.

The straw loft furnishes a means of remodeling old poultry houses by reducing the air space and making them warmer in winter and cooler in summer. Old lumber or fence wire can be used to hold the straw in place. A door can be placed at either end of the straw loft to permit the circulation of air and make the house cooler in summer.

The straw in such a loft takes up the moisture like a sponge. Mites and

empty means that the chicks will pile in here, and loss results. To help the little chicks clamber into the box at first, lay pieces of two by fours side-wise beside the boxes. As soon as the chicks have learned to hop in and out, take the two by fours away.

Sometimes the chicks will feed right up to nightfall, then roost in the boxes all night. In this case, stack the boxes up about dark, and after the chicks have gone to roost, spread them out again so they will find breakfast awaiting them at the break of day.

At about four weeks of age, take out the gravel screen and place a roller in the top of the trough. This may be merely a piece of quarter-round pivoted at each end by a nail.

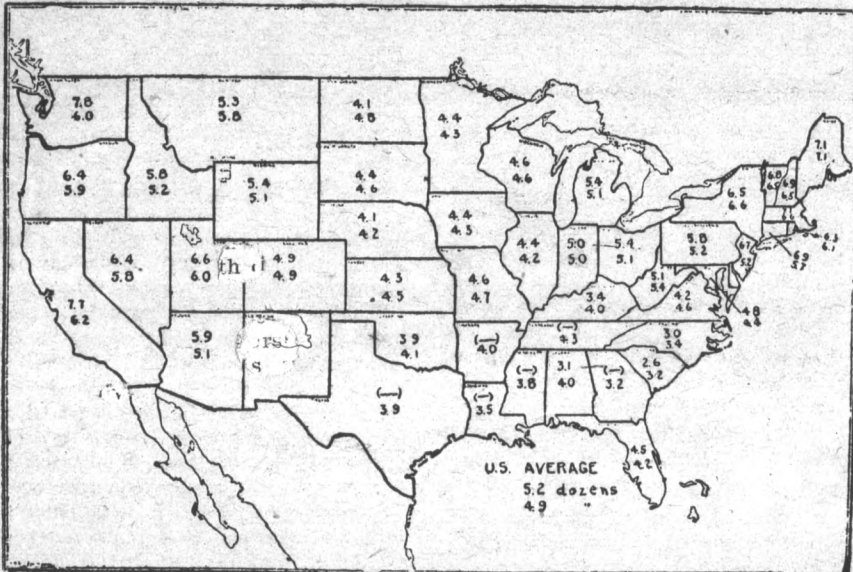
HEASLEY DISCUSSES ASSOCIATION.

DOCTOR L. E. HEASLEY, president of the Michigan State Poultry Improvement Association, discussed the problems and purposes of the association at the Farmers' Week meetings. He states that the public

ing laboratory for white diarrhea, on the grounds that cattle are tested for tuberculosis on the same basis. Cleaning up a disease is a state proposition and the individual should not have to bear all the expense.—K.

NEW MODEL BROODER HOUSE.

THE brooder houses that I have been accustomed to using are built ten by twelve feet, the long way along the front, and on runners that must be pulled from the end. The result was that the house was much heavier on the front side than on the back side, and it would not pull straight through twelve-foot gates. It would twist, then trouble was the inevitable result. More than this, the whole back side consisted of two doors that could be opened during the summer so as to provide additional ventilation for the chicks, and more shade in case the brooder house was hauled into a field where shade was lacking. As a consequence, the frame was anything but rigid after it had been moved several times.



Average egg production, in dozens, per chicken on farms. No correction has been made for males. The upper figures are based on the 1925 farm census, and the lower figure, on the 1920 census. The 1925 figures are not yet available for several southern states. The northeastern and the far western states show the highest averages, and the cotton belt the lowest.

has often expected too much of culling and that many an old hen is a fine breeder, although not a heavy layer at the time of culling. If a flock produces seventy-five per cent in the winter in a warm house, the chicks are apt to be lacking in vigor.

In the work of the association, the hatcheries were taken up first to improve the seed stock going to the farms. The capacity of the hatcheries has increased during the past year, although the number of hatcheries has not greatly increased. The quality of the flocks has improved.

Stock should not be advertised as a certain strain when there is little of the guaranteed blood of that strain in the flock. An effort has been made to clean up the advertising of any firms making misleading statements, and good results have been accomplished.

The association also hopes to do something to help the poultry thieving situation. An adequate poultry department at the college is urged. At present some men are going out of the state to obtain poultry training, and skilled operators of incubators are often brought in from other states. Major incubators are needed at the college to train students to run them for hatcheries, and more land is needed to permit the raising of poultry on clean soil. Direct feeding experiments are needed so we will not have to borrow so much feeding knowledge from other states. If the corn borer becomes bad, new rations without corn will have to be developed by careful experimentation.

A laboratory of proper size is needed, so that disease work, such as white diarrhea tests, can be handled promptly. The association is asking for an appropriation of \$15,000 for a free test-

The rural engineering department and the poultry department of Purdue University, working together, have improved this house greatly in many different respects.

The runners are set the other way so the house is pulled from in front. This alone has lowered the pull necessary to move it, by considerable—probably ten per cent, and has obviated the trouble experienced before in going through twelve-foot gates.

The dimensions of the house are still ten by twelve feet, but the shorter side is the front, while the twelve feet is the depth. This gives more working room inside to take care of the stove and feed the chicks.

The back is rearranged so as to preserve its rigidity, no matter how many times it is moved. In the rear, up from the floor three feet and four inches, a solid rigid wall is built. Above this are three doors about eight inches by three feet, and making a space across the entire back of the house between the rigid wall and the roof that provides for summer ventilation. Although these may at first appear to be minor changes, they are changes which make it much easier to move the house from place to place and greatly prolong its life.—I. J. Mathews.

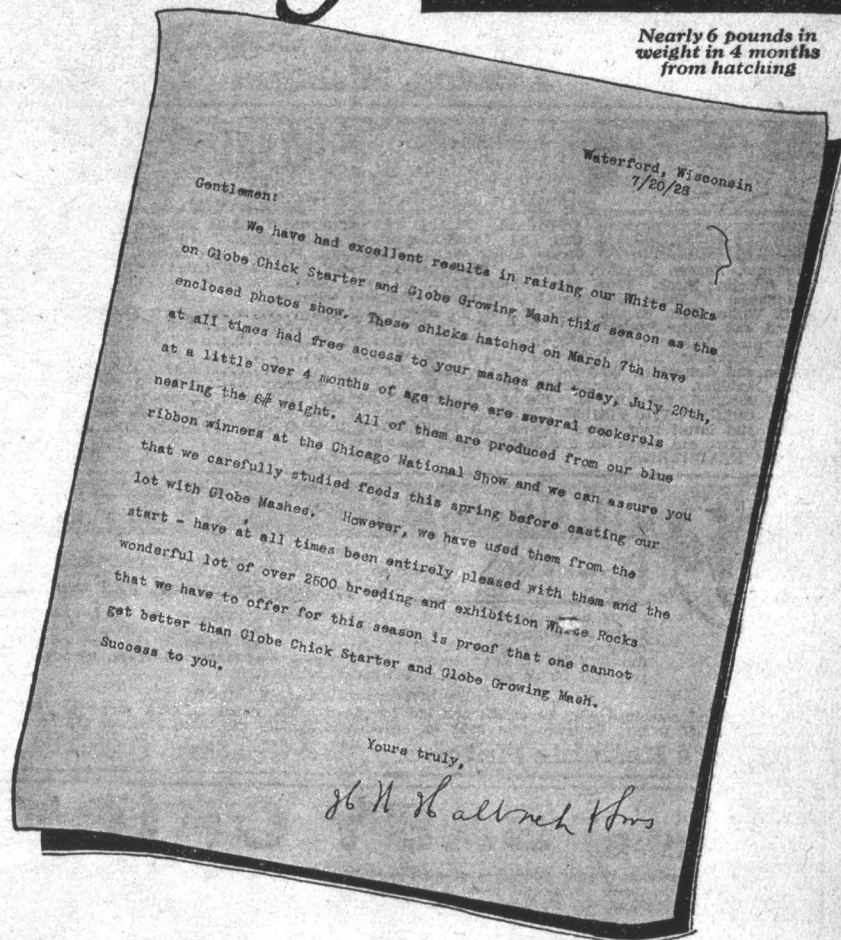
GLAD HE FOLLOWED AGENT'S ADVICE.

MR. H. L. BARNUM, county agricultural agent of Missaukee county, recently gave a poultry man of that county some advice on feeding his hens and for ventilating the poultry house. The flock had produced ninety-six eggs in December. After the changes in feeding and ventilation, the flock produced 1,042 eggs in January.

Will Your Chicks Look Like This Next July?



Nearly 6 pounds in weight in 4 months from hatching



"Carefully studied feeds before selecting Globe"

Of course, no one who had blue-ribbon stock like this would want to take a chance on any but the best feed.

The same principle, however, applies in any flock that is kept for profit. Results are what count.

If you will have chicks to raise this Spring, and want to get the utmost in returns from them, it will pay you to follow Globe Methods and feed Globe Starting and Growing Feeds.

The new booklet shown above, on how to make money with chicks, will be gladly sent free on request.

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DICKINSON'S
GLOBE FEEDS
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Baby Chicks and Pullets PURE BRED CHICKS

Michigan Accredited 1,700 hens on own farm. Hatch chicks from own stock and three of neighbors, from our chicks. All males 200 to 320. Pedigreed. Blood tested 3 successive years. Quality chicks. Prices right. Send for descriptive circular before buying.
S. Harkema & Son, Holland, Mich.

FROM HIGH EGG RECORD FLOCKS. All leading varieties, America, Cert-O-Cult. 21 years' reliability. Large and small poultry raisers buy our strong healthy baby chicks which are easy to raise. Write today for free catalog and price list. Quick delivery and lowest prices, sent prepaid. 100% live delivery guaranteed.
LANTZ HATCHERY, Box J, Tiffin, O.



Michigan Farm Bureau Supply Service Lansing, Michigan



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OFFICIAL Record of Performance Trapnest Pedigree Male, Quality, Exhibition and Foundation Stock Mating Chicks. 40 Popular and Rare Breeds. Jersey Black Giants, Hamburgs, Polish, Lakenfelders, Buttercups, Houdans, Campines, Sussex, Spanish, Cornish. DUCKLINGS, BABY TURKEYS, GOSLINGS. Eggs for Hatching and Breeding Stock. Mem. International B. C. A. and American B. C. P. A. Chicks in Quality Matings as follows: 100% Live Arrival Guaranteed. Postpaid prices on—

S. C. White, Buff, Brown, Black and R. C. Brown Leghorns	25	50	100	500	1000
Barred and White Rocks, R. I. Reds, S. C. Anconas	\$3.75	\$7.00	\$13	\$60	\$120
S. C. Black Minorcas, White Wyandottes, Buff Orpingtons	4.50	8.00	15	72	138
Black Langshans, Silver Wyandottes, R. I. Whites	4.75	8.50	16	77	144
Golden and Columbian Wyandottes, S. C. White Minorcas	4.75	8.50	16	77	144
Light Brahmas, Blue Andalusians, Partridge Rocks, R. C. Anconas	6.00	11.00	20	98	195
Mixed Assorted, \$10 per 100. Heavy Assorted, \$13 per 100. All other Breeds priced reasonable.	6.00	11.00	20	98	195

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Our 18th Year For 17 Years we have culled our flocks for egg production and quality

If better chicks could be hatched for the money we would be hatching them. There are reasons why we have thousands of satisfied customers, and that we have never been able to supply all the demand for our chicks in the past seventeen years. Our reliable chicks possess high egg producing qualities. Send us your order and you will be another one of our satisfied customers.

Free Illustrated Catalog Free

Get our special combined offer on chicks and brooder stores. We hatch thirteen varieties. Fifty Thousand chicks per week. Valuable free book on Chicks and Poultry with each order of \$10 or more.

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15 pure bred varieties of Barred, Buff, White Rocks, Single Rose Comb Reds, White, Brown, Buff Leghorns, Shepherd's Best Anconas, White Silver Wyandottes, Buff Orpingtons, Black Minorcas, Mixed Chicks 9c up. Some won 1st and 2nd prizes in production class. Won many 1st prize blue ribbons in large poultry show. Also have one flock of Morgan-Tancred Strain, blood tested White Leghorns of 250 to 312 egg breeding. Owner paid \$150 for 6 eggs to improve our flocks. Every breeder culled and selected for heavy production. Get free circular. Big discounts on baby chicks and brooders.

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40,000 Weekly. Postpaid, 100 per cent Live Delivery	50	100	200	400	600	1000
White, Brown & Buff Leghorns	\$7.00	\$13.00	\$20.00	\$35.00	\$45.00	\$72.00
White, Barred & Buff Rocks	8.00	15.00	25.00	40.00	50.00	80.00
White Wyandottes, Red, Black Minorcas	8.00	15.00	25.00	40.00	50.00	80.00
Buff Orpingtons, Buff Minorcas	9.50	16.00	26.00	42.00	52.00	82.00
Light Brahmas, Black Giants	11.50	22.00	35.00	55.00	65.00	100.00
Anconas & HEAVY MIXED	7.00	13.00	20.00	35.00	45.00	72.00
Mixed, Odds & Ends, All Breeds	5.50	10.00	16.00	28.00	35.00	55.00

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A PROFITABLE FLOCK

I WAS interested in the article which appeared in your paper last month regarding the care and feeding of chickens; also the results obtained. Thinking that some of your readers may be interested in my test, I am giving you the results.

Last spring, April 10, I bought one hundred Plymouth Rocks and fifty Leghorn chicks from which I raised 135. Some of the Plymouth Rock cockerels weighed 31.2 pounds at twelve weeks. I had 38 Rock and 25 Leghorn pullets ready for the pen by September 15. Some of the Leghorns started laying in September and the Rocks about six weeks later. In November I received 808; from the sixty-three or 42.7 per cent; the Leghorns laying 428 eggs or 57 per cent, and the Plymouth Rocks 380 eggs or 33.5 per cent.

In December I received 1209 eggs or 62 per cent, the Leghorns laying 484 eggs or 66.25 per cent, the Plymouth Rocks 725 eggs or 61.5 per cent. This experiment with the chickens has been a great deal of pleasure and profit to me. In December we received sixty-five cents per dozen for the eggs and as we got one hundred dozens, the total sales was \$65.00, and the feed cost of production was 15.5 cents per dozen.

The coop is 14-20, well ventilated, kept clean, wooden floor, fresh straw every week, plenty of warm water, one and one-half quarts of scratch feed per day, and a good egg mash before them at all times, two to three pounds of semi-solid buttermilk and vegetables every day and I also use electric lights.—Fred C. Gerlach.

POULTRY HINTS FOR MARCH.

YOUR success for the year 1927 hinges on what you do and don't do this month.

Some Don'ts.

Don't use eggs for hatching from hens that have laid heavily all winter.

Don't start the hatching season with any old rooster.

Don't use pullet eggs for hatching.

Don't run away with the idea that one rooster is good for more than fifteen or twenty hens.

Don't feed too heavy with meat while you are saving eggs for hatching.

Don't keep eggs over ten days.

Things To Do.

Clean the incubator thoroughly and give a good airing for two weeks before using.

Ease up on the feed in your breeding pen, giving them a rest before selecting eggs for hatching.

Make up a special breeding pen of your best hens, if only half a dozen, and make your motto, "Not how many but how good." You'll never get any place with quantity at the expense of quality.

If you haven't a good rooster go out and buy the best you can afford.

Only by constant improvement can you hope to get in the A-1 class, and when you do you'll find a waiting market for every egg or baby chick you can produce.

Let your breeders out every day regardless of the kind of weather, as it is eggs with good, healthy germs that you are after.

Make a Test Hatch.

It is a good plan to make a test setting of a dozen eggs to make sure that your eggs will hatch, and that your incubator is running right; incubate to the seventh day, test your eggs, and if everything is all right, fill up the machine and let her go. It is good economy to waste a dozen eggs to make sure everything is right.

If at the seventh day your eggs show infertility, you still have time to get a new rooster, and you have only lost seven days instead of twenty-one.

The rest given your hens before hatching time may seem a waste of money, but I know of a commercial

hatchery owner who keeps a flock of 200 hens doing nothing all winter, so as to conserve their energy for the hatching season. He has done it for three years and said he would go out of business rather than discontinue it.

Eggs for hatching should be gathered frequently to guard against any chance of chilling, and the nests should be kept clean, as a dirty egg, or one that has been washed, stands a small chance of hatching.

Dirty eggs are responsible for a big loss to poultry men, and the clean nest idea should be carried out at all times. A dirty egg, no matter how fresh, is never regarded very highly by the commission men, and they protect themselves by docking the producer.

When picking out your breeders be sure and pick the ones that lay big eggs. This is one of the first steps toward quality. Consumers fight shy of small eggs, and it is high time that eggs were sold by the pound instead of by the dozen. People would then get rid of those sparrow-sized hens that lay small eggs, and try to get into the twenty-seven-ounce per dozen class. It is being done now in Canada and in that way the consumer gets what he pays for.—R. A. Hill.

CAFETERIA FEEDING FOR BABY CHICKS.

FEEDING baby chicks has always been regarded as one of the most difficult problems in the poultry industry. This is partly due to the many difficult feeding systems used in the past. Most of these called for feeding the chicks, when they were sixty to seventy-two hours old, four or five times daily for five to ten minute periods. These feeding periods were gradually lengthened until the chicks were getting about five twenty to thirty minute periods by the time they were a week old. The result of this periodic feeding has been that many chicks actually starved, while others were crowded away from the feed and became dwarfed, weak, worthless things, very susceptible to disease, and a cause of constant worry to their owner.

The cafeteria, or self-feed, system does away with these five to ten minute periods every two or three hours. Feeding dishes filled with some good commercial chick starting mash are placed in the brooder house at the same time the chicks are put there. Water, or milk is provided in proper containers and the chicks are left to help themselves to all the feed they want whenever they want it.

The merits of the cafeteria system extend beyond getting away from feeding the chicks every few hours, which, by the way, is a lot of extra, unnecessary labor. Cafeteria feeding results in a better, stronger chick, and above all, a more evenly developed brood than was possible under the old system of feeding. The starting mash is before the chicks at all times, and allows them to eat at leisure instead of in a free-for-all scramble, such as the periodic plan causes. To the casual observer, watching the cafeteria plan in use, it seems as if the chicks eat all the time. This is not the case, and a little close observation will reveal that they eat a few mouthfuls of mash, go under the hover to get warm; return for some more mash, and then go back under the hover again. This to and fro process is kept up all day long. Instead of eating four or five times daily, the average chick eats twelve to twenty times daily. Under the periodic system the chicks were kept hungry, and then were allowed to overeat, if they happened to be strong enough to gain access to the feeder. The smaller chicks were out of luck in the struggle with the larger ones, and by the time the larger chicks had gorged themselves the feeding period would be up and the feeders removed, leaving the smaller ones still hungry.

Great care must be exercised in selecting the starting mash to be used under the cafeteria system. Not all



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East of Rockies and allowed West. If in a hurry, add only 45c for each incubator or brooder (except 400 and 600 sizes) and 1/2 ship Express Prepaid.

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Its circular shape and metal walls with no dark corners, keep chicks from bunching up and smothering. 1000 chick size brooder stove with 52-inch canopy provides ample heat even in zero weather with small fuel consumption. Absolutely fire, rat, weasel and mink proof. Perfect ventilation, without drafts. Built in standard units to accommodate from 500 chicks up. Shipped "knocked-down." Man and boy can erect it quickly. Write us today.

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Chicago, Illinois

starting mashers will do for this purpose. The commercial all-mash rations put out by reliable feed companies seem to be excellent. Some of the best known chick starting mashers have given good results under this system, the latter are usually supplemented with commercial scratch feed which is scattered in the litter two or three times daily. Cod liver oil should be added to the mash at the rate of two per cent of the total ration. This may be done by thoroughly soaking two or three pounds of fine charcoal with the oil and mixing it in the mash. The main thing is to get the proper feed before the chick, and then let him serve himself.—James L. Boyd.

CLUB MEMBERS PUSH POULTRY

THE agricultural club of the Manton High School in Wexford county, recently showed what such a club can accomplish for their community. A two-day poultry school was to be held at the school and the club members equipped themselves with pledge cards and signed up the farmers living in their communities to attend the sessions of the poultry school. The result was that there was an average attendance at the sessions of the poultry school of sixty-eight farmers. The club members also designed and made posters to advertise the school.

RABBITS FAIL TO BREED.

We have three female rabbits running with a male rabbit for eight weeks, and they fail to breed. This is the second male which has run with them. One of the females had young rabbits three months ago.—H. S.

When only three litters a year are raised from a doe, the progeny are apt to be of better quality than when four litters are raised. Old rabbits are usually considered of inferior value as breeding stock after three years of age. An overfat condition of the breeding stock may be responsible for the failure to breed. It is best to market as meat any rabbits that continually fail to breed, and replace them with vigorous young stock.

The does may be too young to breed. It is best not to breed Flemish Giant does until they are about a year old, and the lighter breeds should not be bred until about seven months of age.

TURKEY WITH SWELL-HEAD.

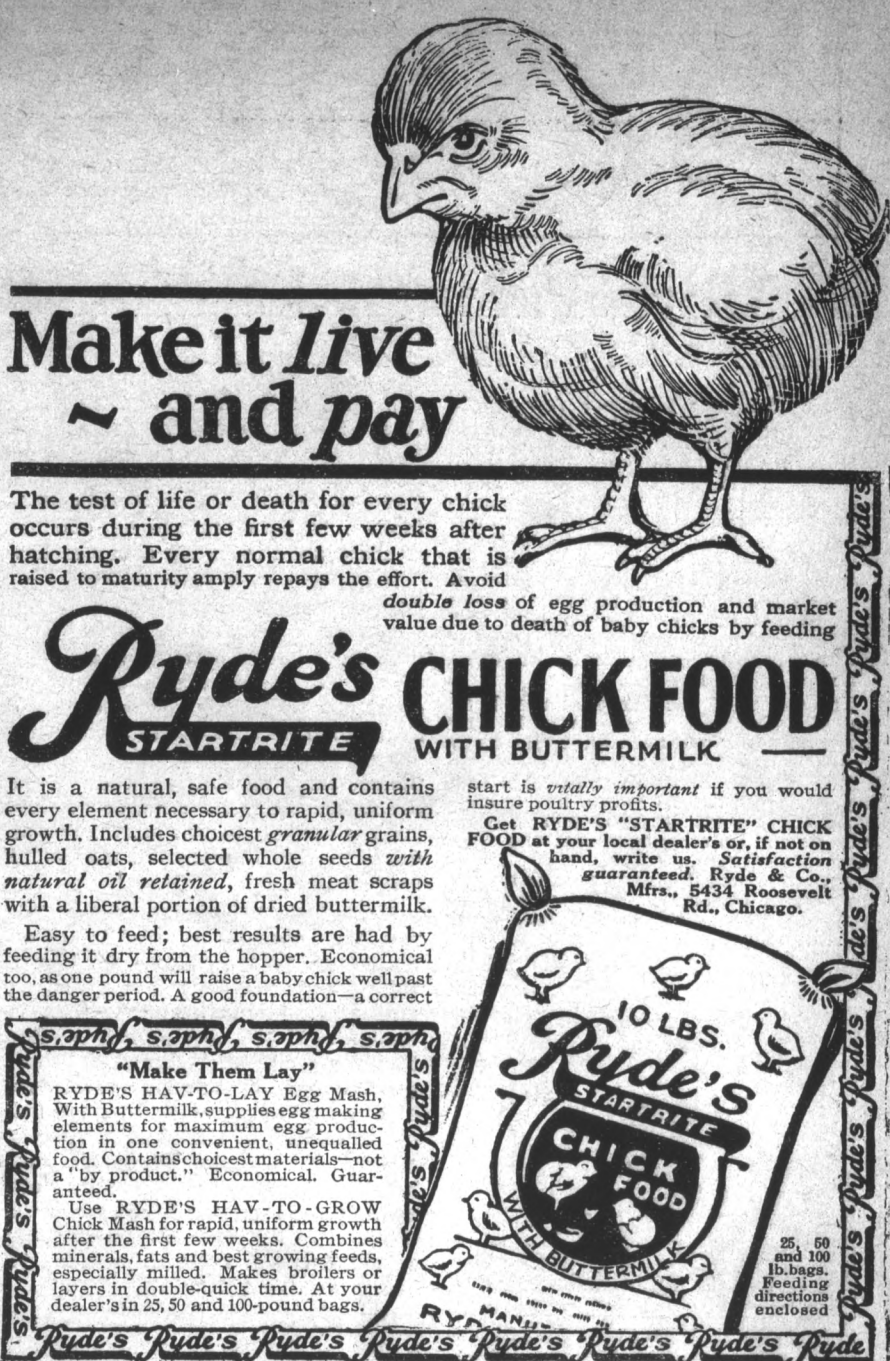
For several days there seemed to be a place on the side of the head of my turkey, just like a blister, and it keeps getting larger, until now it hangs down below his mouth. It doesn't seem to be sore, but after a stormy night there is a white foam over about half of his eye. The foam stays there a day or so, then leaves and doesn't come back until another storm. He is big and fat and never droops around. What I want to know is, is he fit for a breeder, and can you tell me what to do?—Mrs. H. S.

Turkeys are troubled with a condition termed "swell-head," in which the swelling becomes filled with a colorless fluid. The enlargement can be lanced and drained and washed out with commercial disinfectant, and healing may soon result. The froth in the eye after a cold, windy night, is probably due to a slight cold. Injecting a solution of potassium permanganate or commercial disinfectant into the nostrils, may stop the infection in a short time.

DO GEESE INJURE PINE TREES?

The yard in which my geese run is in a grove of pine trees, about six or seven feet high. I have heard that these trees would die on account of the geese running there. Could anyone tell me if this is really so?—N. J.

I have no reports of pine trees ever being injured by geese. Of course, if many geese were constantly feeding on a very limited range, the great increase in the fertility of the soil might not be best for the pine trees. If the geese constantly pulled at the needles on small pine trees, it would cause some damage.



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The test of life or death for every chick occurs during the first few weeks after hatching. Every normal chick that is raised to maturity amply repays the effort. Avoid double loss of egg production and market value due to death of baby chicks by feeding

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STARTRITE WITH BUTTERMILK

It is a natural, safe food and contains every element necessary to rapid, uniform growth. Includes choicest granular grains, hulled oats, selected whole seeds with natural oil retained, fresh meat scraps with a liberal portion of dried buttermilk.

Easy to feed; best results are had by feeding it dry from the hopper. Economical too, as one pound will raise a baby chick well past the danger period. A good foundation—a correct start is vitally important if you would insure poultry profits.

Get RYDE'S "STARTRITE" CHICK FOOD at your local dealer's or, if not on hand, write us. Satisfaction guaranteed. Ryde & Co., Mfrs., 5434 Roosevelt Rd., Chicago.

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Use RYDE'S HAV-TO-GROW Chick Mash for rapid, uniform growth after the first few weeks. Combines minerals, fats and best growing feeds, especially milled. Makes broilers or layers in double-quick time. At your dealer's in 25, 50 and 100-pound bags.

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High in quality, low in price. "I have always liked your chicks the best," one customer writes. Do not pay fancy prices for chicks that are not better. Twelve years of honest dealing behind us. Pulletts after May 1st.

	25	50	100	500
Single Comb White Leghorn, English Strain	\$3.25	\$6.25	\$12	\$57.50
Barred Plymouth Rocks, Park Strain	4.00	7.75	15	72.50
S. C. Rhode Island Reds	4.00	7.75	15	72.50
Mixed Chicks	2.50	4.75	9	42.50

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S. C. Heavy Type White Leghorns. White & Barred Rocks.

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S. C. Brown Leghorns. We Guarantee Satisfaction.

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White Leghorns (Tanored)	\$3.75	\$7.00	\$13.00	\$62.00	\$120.00
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Special matings higher. Mixed chicks \$10.00 per 100. All heavies \$12.00.

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Barred Plymouth Rocks and S. C. White Leghorns

Write for free catalog and prices.

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OUR PAGE

More Parents' Letters

Which Give Advice and Suggestions

PLEASE may I have a few words to say? I have hesitated, thinking I had no right till I saw the letters from the parents. I have read Our Boys' and Girls' Page with interest, and every time anyone said anything about tobacco, I felt like sending forth a warning note. I don't think we can say too much against tobacco. I wished everyone who thinks tobacco is all right, or it does not hurt to use it, would read the "Brown God and His White Imps," published by George W. Noble, 800-810 Monon Building, Chicago, Illinois.

The terrible facts that have been traced by doctors ought to make any common sense person abhor the filthy weed. It destroys your soul, body and mind. I know there are hundreds that say it does not hurt them, but it does more than hurt. It robs you of your will power and destroys all the finer instincts of man.

Just one small paragraph from Dr. Gentry, of Chicago: "The use of tobacco is a great crime and does more harm to the human race than alcohol, and I plead with the people of the

feel "out of it," as he will not be in their doings, and even after high school days are over, he may not feel himself really in their class. Though, I suppose, most fathers would call this foolish, still an "inferiority complex" is not a good thing for a boy to have.

If the boy who, from choice or necessity, leaves school and goes to work, would take my advice, he would not give up all idea of getting an education. He should spend one or two days' pay on books, and especially on some good magazines. Be sure to have a world history and read it. Get a biology and agriculture book if you are interested in farming, or whatever subject appeals to you most. The students in high school can't take all the subjects.

Read good literature. If you think you don't care for it, read it anyhow, as though you were in school and it was a task you had to do, and you may find you like it better than you thought. If you are a little weak in the principles of grammar—often a puzzling subject for boys—review your eighth grade grammar. You can learn not to make bad mistakes in your language. If a boy would do all this, I know that he would be really better educated at the end of four years than the boy who frolics through high school, doing as little as possible, just barely getting through.

The problem is rather different with a girl. If she has to earn her own living, she can do only the hardest kinds of work unless she has a high school education. On the other hand, how many times I have—probably you—heard it said: "What did her education amount to? Went right away and got married and it never did her a cent's worth of good." Well, we hope that she married better for having an education. Many do, though not all, but anyhow, she can associate with a better class of people if she will. We have done our duty as parents in giving her the chance, as we have also given her the power to make the most of her life if she works outside the home.

Above all, as education is not just a matter of dollars and cents, neither is it just for making a good appearance, but there is an inner satisfaction all your life if you appreciate good books

and knowledge, which nothing else can give. The girl, as well as the boy, could educate himself, but both better go to school if they can, for few—how very few!—will educate themselves.—Mrs. RuRai.

I am writing this in hopes that some mother will see her mistake the same as I did.

I felt that, because Jimmie was my oldest son, my first babe, I should be very careful in letting him marry someone poorer than he was, as we were quite well-to-do. Well, Jimmie met Marion Barlette at a house party given at his chum's, Richard Betts', home. He fell in love with her at first sight. He told me all about it that very night, but it was impossible for me to think an eighteen-year-old boy could really be in love. So I told him to have Marion come out for dinner, (we live on a large farm). She came, but she was so homely and shabby—what could my Jimmie love, or even like about her?

That night Jimmie said to me: "Mother, dear, I love Marion and she and I want to get married as soon as I graduate and get to work."

"Jimmie, Marion Barlette is no girl for you; just look how shabby and homely she is. You would disgrace your parents and sisters and brothers by marrying someone unequal to you, and she is a maid, (Marion did house-work then). Besides Jimmie, you're only a boy and you'd best let Marion go and forget about her."

Then Jimmie said, "Then, mother, you mean I'm not to go with Marion?"

"Yes, I'd rather you didn't call her up either."

So the next day or so, Jimmie told Dick and he phoned Marion and told her. She was so heart broken that she went to live with her aunt in Chicago. Now she was gone. I was in my glory. But, alas! Dick told me it was no use, as Marion wrote to him and Jimmie in the same letter, and so I had a plan. I wrote her, through Dick, to come here for a visit. So the following summer she came for a two-weeks' stay. She came during the harvest, and she was such a help. She even darned Donald's (Jim's brother), overalls and helped the boys stack grain. During those two weeks I saw my mistake aplenty. So one night I had a long talk with Jim, and finally consented to his marrying Marion.

It's five years since, and they own a small farm near town. They have a cozy little bungalow and two little kiddies, Jimmy Jo, and Mary Lee. Jim works in town and Marion raises garden stuff, berries, and poultry, and cares for the home. They come here often, and Marion and I are like school girl chums. She consults me in nearly everything about raising the babes, and she and Jim are the best of pals.

I sincerely hope that this will help some other mother to see her mistake, and if they have a son or daughter in love with a girl or man a long way from your home, invite the one for a visit, and get acquainted. Then perhaps you'll change your mind.—Jimmie's Mother.

And so you wear pants—isn't that awful? The corn borer is going to interest every farmer in Michigan pretty soon. You didn't give your address, so I can't tell where the borer has not appeared. It is well to know about it, for it is on the way.

Dear Uncle Frank:

Erwin Sidner certainly wrote an interesting letter. He has some good ideas on evolution. People certainly can't believe in the Bible, and also that we descended from lower animals.

I enjoy reading the letters on city vs. country. It has been said that farm women have to thaw out a pump with a tea kettle in the winter. I wish to say that not very many farmers have pumps of that kind to thaw out. Many farms have electric lights and power. I'll go to Benzonia High School next year. I understand you passed through Benzonia several years ago.—Emmy.

Thawing pumps is getting to be a thing of the past. Water in the house is what every farm should have. I went through Benzonia twice last summer.

Howdy, Everybody:

You haven't heard my gentle voice for some time, so I think it time that I let you know I am still on earth.



Albert Faber Says He is Thirteen Years Old.

world who are clean in mind and body, to unite together in putting down this accursed traffic."

Please get this little book, "The Brown God." It is only twenty-five cents. Don't form the habit, for when it is once formed, in most every case it is impossible to break, unless God breaks it for you.

I have two dear little boys who, by God's help, shall never use the vile weed. Much more might be said, but I do not want to take up too much space.—Mrs. George W. Haywood.

Thank you, I will accept with pleasure your invitation to the parents to write something for "Our Page." I like this page and usually read it. It is much more interesting than many of the children's pages in other papers. I am sure if I were not past eighteen, I should be an M. C.

There are so many subjects upon which I should like to say a little. I sympathize with the mother who is bothered about the girls not wearing warm clothes, but there doesn't seem to be anything we can do about it. If we talk of common sense, they call us "old-fashioned."

The boy who suggested for discussion, "Shall we go to high school or not?" had something practical, for it is a problem to many. While I am for high school, I can see that there are things to be said on the other side. To people of wealth, it seems there could be no question about it. All the education possible, of course. But most common folks have to count the cost, and there is no denying that as things are now, a boy who does not care to enter a profession, as the law, or medicine, can make as much money now as his friend will be able to make when he finishes high school, and many quit school to earn their \$5.00 a day.

In a way, it is a pity. Since a majority of a boy's grade school friends go to high school, he is going often to



Viola Evans Looks Like a Campfire Girl.

Some time ago there was a letter on our page, I have forgotten the author, but his or her subject was on the faults of the country. I imagine she is one who has always lived in the city and does not know the good points of the country. Dear friend, always try to find some good points in everything. Don't always look for the poor ones.

Uncle Frank and cousins, I wish you would please answer this question, then I will close my gab. Why is it, if the country has so many faults, that all of the city people flock to the open air as soon as 'tis warm in the spring, and stay until they freeze up in the fall? Those that only stay for a few weeks, sit on the shores of the lakes so as to get tanned as they can, so when they go back to the city they can show their city fellowships that they have been in the country in God's free and pure open air. What do you say, all you debaters? Yours for good luck, your niece and cousins—Viva Bisard.

Some more good points in favor of the country. Some city folks have only about two weeks in a year to get any amount of sunlight; that's why they are so anxious to get out in the country and the sunshine.

Dear Uncle Frank:

Someone started to talk about books and mentioned some good ones, too. I think it's a pretty good topic; good books are a source of entertainment and influence to most of us. Books, or I should say literature, have influenced the minds of some of our greatest men, and I think it is well to refer each other to books that are worth reading, or to writers who are well known for their works. Such writers as Dickens, Scott, Cooper, and many others, seem to be forgotten in our rampage for popular fiction. Though

OUR LETTER BOX

Dear Uncle Frank:

Ah, knickers, pants are the apple of my eye. I have real short hair, wear pants, but wait—I do all the chores, too, excepting milking. Mother helps me do that.

I am interested in the corn borer, and read every article I can about it. It hasn't shown up here yet.

There are many girls with bobbed hair, yet you can stumble across one

that has long hair. When I have long hair, I might as well go in the corn field and take the place of a scarecrow.

I like city life and country life, too. Some day I am going west, that's where I always wanted to go, or to Canada. I'm going to sign my letter with another pet name. I seem to be a victim of nicknames—have four of them.—Theo.



Club Boys and Girls in the Upper Peninsula Judging Cattle.

THIS NEW BLUE HEN COLONY BROODER

mothers ALL your chicks to a healthy maturity

Its new hover is large enough to cover its rated chick capacity—and it spreads an even healthy heat from the stove to its outside edge.

Its new stove is easy to control and inexpensive to operate—the large magazine holds enough coal to maintain an even temperature 24 hours in the coldest weather.

It pays for itself in the extra chicks it raises and the labor it saves you.

Send TODAY for the new Blue Hen Book of Brooder Facts Free
LANCASTER MFG. CO. 883 N. Janet St. Lancaster, Pa.



A real, live money-making proposition to User Agents Write Us Today

Take No Risk 30 Days Trial

Money back if not satisfied. Made of California Redwood, covered with galvanized iron, double walls, air space between, built to last for years; deep chick nursery, hot water heat, copper tanks. Order from this ad—you take no risk. Shipped set up—ready to run. Money back if not pleased, or write for FREE catalog.

140 Eggs—\$13.85; with Hot Water Brooder, \$19.60
260 Eggs—\$23.50; with Hot Water Brooder, \$32.50
140 Eggs—\$13.85; with 200 Chick Canopy Brooder, \$23.85
260 Eggs—\$23.50; with 300 Chick Canopy Brooder, \$33.50
520 Eggs—\$47.00; with 500 Chick Canopy Brooder, \$58.50

IRONCLAD INCUBATOR CO., Box 83, Racine, Wis.

PURE-BRED CHICKS

Have you ordered your Silver Ward Chicks yet? You must act promptly if you would not be disappointed. Our old customers learn to place their orders early. Check up on your needs and write today.

MICHIGAN ACCREDITED CHICKS.

Every Silver Ward breeder is a worthy specimen. State inspectors have examined and approved every breeder. Famous strains, as Barred, Tanager, Leghorns, Sheppard Anconas, etc., are found incorporated in Silver Ward Stock.

OUR NEW CATALOG IS READY.

Write today for the complete story of Silver Ward as told in our new catalog. It is free. Its helpful suggestions are worth considerable to you.

SILVER WARD HATCHERY
BOX 29 ZEELAND, MICH.

WOLVERINE S. C. WHITE LEGHORN BABY CHICKS

BLOOD SAFE ARRIVAL WILL GUARANTEE MICHIGAN STATE ACCREDITED

Your next winter's egg production depends on the quality of the Chicks you order NOW!

Our 1927 Free Catalog tells how.

Write for a copy.

WOLVERINE HATCHERY & FARMS
H. P. Wiersma, Owner and Breeder
Dept. 4, Zeeland, Mich.

Pure Bred Means Profits

Get Myers Pure Bred Chicks for profits from leading strains of S. C. White Leghorns, Barred Plymouth Rocks, Rhode Island Reds and White Wyandottes. Chicks from paying parent flocks will live and grow and pay for you.

Cert-O-Cult

Flocks are pure bred, culled for egg production, size and type, Smith hatched chicks, healthy vigorous and proper. Order early. Shipped when wanted. Live delivery guaranteed. Write for descriptive catalog.

Myers Hatchery
Box 6
Mt. Pleasant, Mich.

LIVE and GROW

BARRED ROCK CHICKS

MICHIGAN ACCREDITED

Pinecroft Barred Rock Chicks will satisfy you. Three hundred pullets now being trapped in Record of Performance work, under supervision of M. S. C. We are never satisfied until you are.

Write for our free circular.

PINECROFT POULTRY FARM and HATCHERY.
C. E. Norton, Prop., R-6, Owosso, Michigan.

PEERLESS CHICKS MAKE FRIENDS

One writes, "Pullets from your White Leghorn Chicks are again highest record laying flock in country." Another writes, "Lost only 28 out of 1000 chicks." And another, "Raised 152 pullets from 300 chicks." Price per 100, S. C. White, Buff and Brown Leghorns, \$12; Barred Rocks and S. C. R. I. Reds, \$14; White Wyandottes, \$15. All flocks are healthy and closely culled. 100% live delivery guaranteed.

THE SMITH HATCHERY, BRYAN, OHIO.

Michigan Accredited CHICKS

Blood Tested for the Past Three Years

Barred Rocks, R. I. Reds, White Leghorns, 100 per cent live delivery. Holterman Strain Barred Rocks. Trapped hatchling eggs.

Krueper Poultry Farm & Hatchery,
R. No. 3, Milan, Michigan

their works might not be considered equal to those of Shakespeare, Milton, and, in fact, the world's greatest writers, they are better than the average. But probably that's a matter of opinion, so let's hear more about this topic. I might add, I read "The Last of the Mohicans," which is by Cooper, some time ago, and I thought it was a dandy.—Albert Peterson.

Your views on literature are interesting and sound. One can make reading a detriment to him if he is not careful in his selection of literature.

RIDDLE CONTEST.

HERE are three poem riddles to solve. Number your answers the same as the riddle, and don't forget your name and address, also M. C. if you are an M. C.

All the correct papers will be mixed together and ten lucky ones pulled. They will be given prizes as follows: The first two, fountain pens; the next three, unique combination of pencil and knife; the next five, two Michigan Farmer pencils each. All who have correct answers and are not M. C.'s will get cards and buttons.

The riddles are as follows:

- 1—Nature requires five Custom gives seven Laziness takes nine And wickedness eleven.
- 2—Two brothers we are Great burdens we bear And often are bitterly pressed 'Tis true what I say. We are full all day And empty when we go to rest.
- 3—Formed long ago, yet made today. Employed while others sleep. What few would like to give away Nor any wish to keep. This contest closes March 11. Send your answers to Uncle Frank, Michigan Farmer, Detroit, Michigan.

READ-AND-WINNERS.

A NICE response was received from the last Read-and-Win Contest. From the correct papers the following ten were picked:

- Fountain Pens.**
Leona Lentz, R. 4, Freeland, Mich.
Roland Anderson, Chief, Mich.
- Clutch Pencils.**
Laurence Wood, R. 2, Armada, Mich.
Ella Engelhard, Sebawaing, Mich.
Iva Hutchinson, R. 4, Caro, Mich.
- Two Michigan Farmer Pencils.**
David S. Johnson, R. 1, Mancelona.
Esther A. Sjogren, R. 3, Rockford.
Floyd Ringler, Brutus, Mich.
Beatrice Johnson, R. 1, Wolverine.
Louise Turner, Mosherville, Mich.
- Read-and-Win Answers.**
1. 246-20.
2. Legacy from distant relative.
3. Simplicity and modesty.
4. Husband and sons.
5. Garfield Farley.
6. Between \$5,000 and \$5,500.

Our Little Folks

SUNDAY AFTERNOON CHATS FOR LITTLE FOLKS.

Do you remember a year or two ago everyone was doing cross-word puzzles? Some people are still interested in them. Perhaps you will be interested to know that there is something like a cross-word puzzle in the Bible. At least it is the Hebrew idea of an acrostic.

Look in your Bible for the Psalm which has the greatest number of verses. You will find it has 176 verses, or twenty-two sections of eight verses each. Our alphabet has twenty-six letters, but the Hebrew alphabet has twenty-two. When this Psalm was written in the original Hebrew, each section represented a letter of the alphabet, and each verse started with that letter. Some English translations of this Psalm show this, but most of our Bibles just show the strange looking Hebrew letter at the head of each section.

In every verse there is also a word which means the same as the word of God, such as "precepts," "testimonies," "statutes," or "law." It is interesting to take pencil and paper and write down these different expressions which mean the same. I used to wonder if I couldn't find one verse that had omitted it, but I never did.

This Psalm is sometimes called the "Alphabet of the Law."

Which one is it? Look for the answer next week.

The answer to last week's Chat was King David. I Chronicle 11:15-20. The regular series of Woodland Stories will be resumed next week.

EGGS

How to Get Fertility with Increased Production



Profit from the Experience of Successful Poultrymen

Center Hall, Pa. St. Louis, Mo.

Dr. L. D. LeGear Medicine Co., Gentlemen: For the past fifteen years we have been each year convincing several thousand new customers that there is a vast difference in chicks and chickens. Since 1900 we have developed a SUPER-strain of Leghorns that have delighted more than 50,000 customers in all parts of the U. S. A. and twelve foreign countries. But—we failed to apply this same truth to the field which your Poultry Prescription so thoroughly covers. I am writing you today first to congratulate you on the real service you are rendering the poultry raisers of the country in the production of Dr. LeGear's Poultry Prescription, and secondly to urge that you more extensively acquaint our poultry-raising people of the fact that yours is an aid to Nature—not a detriment. Let them know that Dr. LeGear's Prescription is a FOOD, not a "dope." Our analysis of your Prescription, the increased egg production, the more rapid and even development of the young stock plus the maintenance of the general health of the fowls, have made of us most enthusiastic "boosters" for your Prescription, and we want you to realize that we shall never neglect an opportunity to recommend your valuable product to our "Kerlin-Quity" customers. Wishing you an abundance of deserved success, we are, Very truly yours, W. W. Kerlin.

KERLIN'S GRAND VIEW POULTRY FARM.

Dr. LeGear's Poultry Prescription

Mineralized—contains essential minerals for egg production, rich blood, bone tissues and feathers—TONICS for the blood, nerves and egg organs—REGULATORS for the digestive organs—LAXATIVES for the bowels; all being vital ingredients lacking in home or commercial mixed feeds, without which best results cannot be obtained from poultry.

Get a full or package from your dealer. Mix with mash feed. If not thoroughly satisfied with results, return empty package to your dealer and he will refund your money. Convince yourself by trial and test that it is all—does all—that thousands of successful poultrymen claim for it.

Dr. LeGear's Chick Diarrhoea Tablets Save Baby Chicks

White Diarrhoea causes more baby chick losses than all other diseases combined. Highly contagious. If not checked whole flocks are often wiped out. No chick from three days to two weeks old is immune. Keep Dr. LeGear's Chick Diarrhoea Tablets in all drinking water until third or fourth week. Thousands of poultrymen have used and praised it for years. Any dealer can supply you. All Dr. LeGear's products sold on money-back guarantee. Use full package. If not satisfied, return empty package and dealer will refund purchase price.

FREE—Just Off the Press

"Dr. LeGear's Complete Poultry Guide and Feeding Manual," an authoritative and up-to-date treatise on all poultry questions. Gives the feeding formulas recommended by Experimental Stations in practically every state in the Union—also the formulas used in the big egg-laying contests. Ask your dealer for a copy, or send us 6c in stamps to cover mailing. Let this book help you to bigger poultry profits. Ask for it today.

DR. L. D. LEGEAR MEDICINE COMPANY, ST. LOUIS, MISSOURI

Get This New Blood

Newer, better, breeding stock. 400 Pure Hollywood Cockereels in our 1927 matings. Shipping dates every Monday after March 7th to June.

1926 Contest Winnings

In 51 weeks this year, our pen of 10 birds at the Michigan International Egg Laying Contest, produced 2,393 eggs and finished Second for all pens from Ottawa County. These birds were from our standard matings.

Get Our 1927 Catalog

Tells all the facts about our new egg blood lines and contest winnings. Copy FREE.

WYNGARDEN FARMS & HATCHERY

ZEELAND Box M MICHIGAN

Egg Bred for 21 Years
Two Breeds, S. C. White Leghorns and Anconas.

Hen No. 610
Mich. 1925 Contest
279 Eggs in One Year

WASHTENAW Baby Chicks

Pure Bred BABY CHICKS Michigan Accredited

We have not only selected our breeding stock and mated our birds for best results, but we have joined the Michigan Accredited Association. An inspector from the Agricultural College approves every bird. This work is for your protection and gives you the most up-to-date in baby chicks. Write for literature and price list. Our chicks cost no more and you can feel safe. 100% live delivery. Write today.

LEGHORNS

We have prepared a big, illustrated circular which tells all about our chicks. It is worth your while to get it if you expect to buy chicks this year.

PRICES: Our prices are reasonable. Our chicks are good. Write today.

WASHTENAW HATCHERY.

Get Our Illustrated Literature

BARRED ROCKS

ANN ARBOR, MICH.

WOLF SELECTED CHICKS

Baby chicks of highest quality. Special Pen Mated Stock and Extra High Bred Stock at slightly higher prices. If you prefer. Fine healthy pure bred utility chicks at following prices. Catalog free.

Prices postpaid. (100% live del. guaranteed).	25	50	100	500	1000
S. C. Wh., Br. & Buff Leghorns; Anconas	\$3.75	\$7.25	\$13	\$62	\$120
Wh. & Bd. Rocks; S. C. & R. C. R. I. Reds;					
Bl. Minorcas	4.00	7.75	15	72	140
Wh. Wyandottes; S. C. Buff Orpingtons	4.25	8.25	16	75	145
Jersey Black Giants	7.00	13.00	25	115	
Mixed Chicks (Heavy)	3.50	6.50	12	60	120
Mixed Chicks (Light and Heavy)	3.25	6.00	11	55	110
Mixed Chicks (Light)	3.00	5.50	10	50	100

WOLF HATCHING & BREEDING CO. BOX 42, GIBSONBURG, OHIO.

BIG HUSKY CHICKS

Proven Layers—Michigan Accredited. Get These High Quality Profit Producing, ENGLISH AND TANGRED STRAIN WHITE LEGHORNS, S. C. BROWN LEGHORNS, SHEPPARD'S ANCONAS, BARRED ROCKS AND S. C. RHODE ISLAND REDS. Also Mixed Assorted Chicks. All from carefully culled, selected breeding stock. Heavy Laying Type, Profit Producing Pullets, from English and Tanager White Leghorns. Order NOW for Assured Deliveries. FREE Circular Gives Full Details. Write at once. 100% Live Delivery Guaranteed. Bank Reference.

WINSTROM'S HATCHERY, Albert Winstrom, Prop., Box C-6, Zeeland, Mich.

KEYSTONE HATCHERY

THE SIGN OF QUALITY AND SERVICE

HIGH PRODUCTION—STANDARD BREEDS Better Chicks Make Better Friends

KEYSTONE QUALITY CHICKS for immediate delivery. Write for free catalogs and prices.

Our breeding methods assure you of strong, healthy chicks from real production quality. Hatched right—shipped right—Your satisfaction means our success.

100% live delivery guaranteed—postage paid.

CAPITAL KEYSTONE HATCHERY, Dept. 105, LANSING, MICHIGAN.

HUNDERMAN CHICKS

Chicks that are hatched from free range breeders carefully selected. Our flocks and hatchery inspected and passed by representative of Michigan State College. Refer you to State Commercial Savings Bank. Order from this ad.

Prepaid prices on—	25	50	100	500	1000
S. C. Wh. and Br. Leghorns	\$4.00	\$7.00	\$13.00	\$62.50	\$120.00
Br. Rocks and S. C. R. I. Reds	5.00	8.50	16.00	77.50	150.00

Mixed Chicks \$10.00 per hundred. Our chicks are Michigan Accredited. 10% down books your order. Free catalog. 100% live delivery prepaid.

HUNDERMAN BROS., R. R. No. 3, Box 58, ZEELAND, MICH.



"I let \$750.00 go to waste last year because that 80 wasn't fenced hog-tight"

"On one 20 I lost 200 bushels of oats laid flat by wind. Fence would have made me \$100.00 in pork, mutton and wool.

"Fence would have made me \$50.00 in pork out of shattered and down grain on this other 20 acre wheat field, after threshing.

"Soy beans, in this third 20 of corn would have made me \$200.00 more in pork after husking, according to my farm paper.

"Hogging down this other 20 would have brought me \$1 a bushel for corn in place of only 60 cents. So, out of a thousand bushel yield I lost about \$400.00, not counting the \$150.00 it cost to pick and market."

That's \$750.00 "ploughed under" by one man through lack of hog-tight fence. Carl Schultz, farmer at Russell, N. D., also tells how to fence farms for profit. Write to us for Mr. Schultz' story including what a lot of other successful farmers say about more profits from better fenced farms.

Red Strand Fence

is "Galvannealed", not galvanized. Extra heavy zinc coating and more copper in the steel keeps rust out. Full length, picket-like stays, wavy strands and can't-slip knots keep it straight, firm, trim. The easy to erect, hog-tight, bull proof farm fence that lasts years longer. Write us for "Hog Yard Sanitation" folder, "What 17,000 Farm Folks Say" and "Red Strand" Fence catalog.

KEYSTONE STEEL & WIRE COMPANY
4985 Industrial St. Peoria, Illinois

COMPLETE POWER MILKER \$35

Ready to milk when you get it. Send for sensational offer! Milk 15 to 40 cows an hour—easy. Costs nothing to install. Easy to clean. Milks the human way—easy on the cows. 30 Days Trial—10 Year Guarantee—satisfaction guaranteed or money refunded. Write today.

OTTAWA MFG. CO.
1821 White St., Ottawa, Kans.
1821 McGee Bldg., Pittsburgh, Pa.



SPOHN'S DISTEMPER COMPOUND

Keep your horses working with "SPOHN'S." Standard remedy for 32 years for Distemper, Strangles, Influenza, Coughs and Colds. Give to sick and those exposed. Give "SPOHN'S" for Dog Distemper. Sold by your druggist. If not, order from us. Small bottle 80 cents, large \$1.20. Write for free booklet on diseases. SPOHN MEDICAL CO. Dept. 5 GOSHEN, IND.

for HORSES, MULES and DOGS

BOWSHER Crush Feed Mills

Rapidly crush ear corn (with or without husk) and grind all the small grains; either separately or mixed—mixed as they are being ground—not before or after. This saves time and labor.

"Combination" Mills Use the famous Cone-Shape burrs. Light Draft. Large Capacity. Solidly Built. Long Life. 10 sizes—5 to 175 bush. per hour. Handy to operate. Sacking or Wagon Box Elevator furnished. Circular Free. The D. N. P. Bowsher Co., South Bend, Ind.

Handy to operate.



SAVE THE HORSE

makes horses sound—no big bills—no lost time. Easily applied; money back if it fails. Ends spavin, thorpin, curb, splint, sprained tendon, leg or foot trouble. 34 years a success.

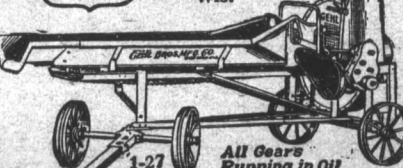
FREE "Save-the-Horse" book, illustrated, tells what's wrong and how to fix it. Half million farmers use it. Book, sample guarantee and "vet" advice FREE! Write today!!

TROY CHEMICAL CO.
320 State Street Binghamton, N. Y.
Your druggist has "Save-the-Horse"—or, we ship direct, postpaid. Don't take a substitute, there isn't any! There's nothing like "Save-the-Horse."

GEHL Lightest-Running SILO FILLER

Low speed means less power required, less vibration, hence longer life. The Gehl has all steel construction, non-breakable, boiler-plate fly wheel. Absolutely self-feeding. All gears enclosed—run in oil.

What a University Test Proved
A Gehl cut 19.26 tons per hour with only 13.26 H.P., elevating 35 feet and running 465 R.P.M.—the lowest power of any cutter in the test. It will do as well on your farm.



1 Full Year to Pay

This **VIKING Cream Separator** with its famous bowl will increase the dollars of your dairy profits. Close skimming, easy turning. Easy monthly payments at prices within your reach. Viking discs handled like keys on a ring—easy to clean. Sizes 100 to 1000 lbs. capacity; hand, electric, power. Now—ask for "Help Your Cows Make Cash." Dept. 11

UNITED ENGINE COMPANY, Lansing, Mich.

1 year to pay after 30-day trial

American CREAM SEPARATOR

Brand new models, vastly improved. Unexcelled by any in World for close skimming, easy turning and convenience. Quick cleaning Bowl is Sanitary marvel. Skims warm or cold milk. Makes thick or thin cream perfectly. Seven sizes, from 850 lb. to one-cow size.

PROMPT SHIPMENT FROM POINT NEAR YOU. Factory prices as low as \$24.95. Easy Monthly Payments low as \$2.20.

Write for FREE Catalog. Tells about our sensational money saving offer; our low prices, free servicing and new models. Write for it TODAY.

American Separator Co.
Box 24J Bainbridge, N. Y., or
Box 24J 1929 W. 43d St., Chicago, Ill.

COW TESTING IS GETTING RESULTS.

DURING January the 102 Michigan Cow Testing Associations reported that 148 cows were disposed of as unprofitable animals. This figure is taken from the seventy-four associations that reported testing 19,005 cows. Five herds were re-tested and are listed with over fifty pounds of butter-fat each. The highest producing herd for the state is owned by J. K. and J. M. Barden, members in the Allegan-West Cow Testing Association.

Four out of the five highest producing herds are either pure-bred or grade Jersey herds. The Allegan-West Association also is credited with the highest butter-fat production for the state.

All cows under test in Michigan averaged 25.01 pounds of fat. The high

Fourteen states also have enacted laws, or have issued regulations authorizing by law requiring the tuberculin testing of cattle. Though varying in details, the laws have the same general purpose—to safeguard the wholesomeness of milk supplies. In all cases tuberculin tests must be applied by approved graduate veterinarians.

As a basis for skilled tuberculin testing in which the public may have confidence, the federal and state veterinary officials have prepared lists of "accredited" and "approved" veterinarians. These terms apply to private practitioners, who have satisfied federal and state authorities as to their qualifications.

An examination of the forms of supervision over the tuberculin testing of cattle supplying cities with milk shows the large extent to which cities have



These Are Michigan Cow Testers Attending their Annual Conference at the Michigan State College.

cow for the month was a pure-bred Holstein owned by Dewey C. Pierson, member of the Lapeer Cow Testing Association. The cow under re-test, and four times a day milking, produced 113.0 pounds of butter-fat.

The best Cow Testing Association Conference ever held in Michigan was the verdict of eighty cow testers and many dairymen who attended the sessions on January 31 and February 1, during Farmers' Week at Michigan State College.

The outstanding comment was that Michigan during 1926, with 25,000 cows under test, averaged 301.9 pounds of butter-fat.

MORE CITIES REQUIRE SAFE MILK.

EXTENSIVE interest of cities in the nation-wide campaign against tuberculosis of live stock is seen in the results of a survey recently conducted by the United States Department of Agriculture. A total of 874 cities and towns have ordinances requiring the tuberculin testing of cattle furnishing milk for consumption. Official reports indicate that with the exception of about one per cent, the ordinances are fairly well enforced.

The action of such cities as Chicago, Cleveland, Detroit and Louisville in promulgating tuberculin-test requirements has stimulated recent interest in this subject. The survey showed, however, that the smaller communities also are fully as active in safeguarding their milk supplies.

In addition to the 874 cities having tuberculin-test ordinances, 375 provide an option between tuberculin testing and pasteurization. Thus a total of 1,249 municipalities have taken positive steps to safeguard their milk supplies from possibility of disease transmission.

accepted the so-called uniform plan of testing. This plan provides federal and state indemnities for cattle which prove to be tuberculous, and which are removed from the herd and slaughtered. The plan is followed by 634 cities. Cities that rely on municipal inspection alone, number 498, while 117 cities and towns use a combination of the two safeguards, or make some other provision for tuberculin testing.

A study of reports from the various states explains the rather general adoption of pasteurization as an additional safeguard even when the cattle are tuberculin tested. Proper pasteurization, as is well known, destroys any infection from other disease-producing organisms that may be present. It also gives double assurance that no living tubercle bacilli are present.

These sidelights appear to show the strength of public opinion and the extent to which milk consumers demand safety with respect to their milk supplies. The condition appears to be especially true in states to which tourists and home-seekers go for their health.

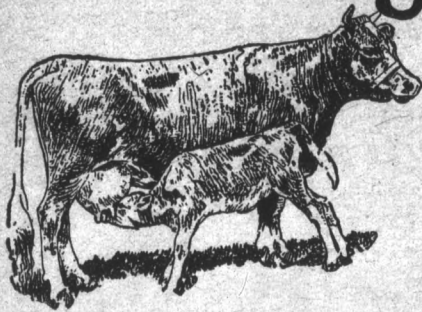
Several states have issued educational literature dealing with bovine tuberculosis, the evidence of transmission to human beings, plans for eradication, and laws and regulations for suppressing the disease.

Besides this means of stimulating interest in safe milk supplies, various state officials have drafted sample milk ordinances based on successful ordinances elsewhere. In these are embodied effective and practical provisions for dealing with the tuberculosis problem.

Some cities have taken more definite action than others, but evidence is abundant that city "fathers" are becoming more and more concerned in guarding the milk consumed in their communities.—H. Smith.

Additional Stock Ads. on Page 337

No More troubles of Calving



STOP dreading the time when your cows freshen! The troubles you've looked upon in the past as part of the hazard of dairying are no longer a menace to your profits. Dairymen without number are now using Kow-Kare at freshening because of its marvelous invigorating action on the reproductive organs.

Kow-Kare is a concentrated tonic-medicine that has no other function than the building up of the digestive and genital organs. By using this famous cow medicine with the feed for two or three weeks before and after freshening you are assured a healthy cow—and a strong, vigorous calf. Retained Afterbirth and the other disorders you have learned to dread have no terrors for you if Kow-Kare is your reliance.

Kow-Kare, used sparingly with the feed helps your cows fill the pail under the most adverse conditions of winter feeding—when dry, heavy feeds put an added burden on digestion and assimilation. Try Kow-Kare when troubled with Barrenness, Retained Afterbirth, Abortion, Bunches, Scours, Lost Appetite, etc. Its health-building action will give you a convincing demonstration of its money value to you in the business of dairying.

Dairy Asso. Co., Inc., Lyndonville, Vt.

Makers of Kow-Kare, Bag Balm, Grange Garret Remedy, American Horse Tonic, etc.

KOW-KARE

FAMOUS CONDITIONER OF MILCH COWS



Feed dealers, general stores, druggists have Kow-Kare—\$1.25 and 65c sizes (six large cans, \$6.25). Full directions on the can. Mail orders sent postpaid if your dealer is not supplied.

Write for free book, "The Home Cow Doctor"

LIGHTNING, FIRE & RUST PROOF



EDWARDS METAL ROOFING

We own our own sheet mills, roll our own sheets, control every operation from the raw material to the finished product.

EDWARDS "REO" METAL SHINGLES look good, outlast three ordinary roofs. No painting or repairs. Guaranteed fire-proof, rust-proof, lightning-proof. Easy to put on. We also sell V-Crimp, Corrugated, Standing Seam, Painted or Galvanized Roofings, Sidings, Wallboards, Paints, Ready-Made Steel Garages, Farm Buildings.

GET OUR FACTORY PRICES By buying direct from us you save money, get better value. We are the largest manufacturers of metal roofing in the world. Thousands of satisfied customers every year are our best advertisement.

FREE SAMPLES & Roofing Book Write today! Get our wonderfully low prices, lasting satisfaction. Ask for Roofing Book No. 167 or for Garage Book.

THE EDWARDS MFG. CO.
317-367 Butler St.,
Cincinnati, Ohio

EXPERIENCE HELPS IN LAMB FEEDING.

THE man who is not old at lamb feeding can't comprehend the extent to which experience features in the success of the industry. Lamb losses in the fall and early winter this season have been extra heavy; but quite generally these losses have beset the beginner far worse than the old handler.

One of our local lamb feeders who is just now topping out his feedlots by shipping a double as often as under-ninety-pound averages show up ignored a big blue grass pasture when the lambs came from Chicago in October—and put everything right into drylot. This grass had grown during mighty wet weather, and the whole period that the lambs would have been out

feeding lambs without knowing how; in either case you may get bumped, but experience and cautious beginnings save many from disaster.—Wm. Payne.

HOG CHOLERA LOSSES ABATED.

AS was predicted," says a veterinary inspector of the United States Department of Agriculture, following a recent trip to the hog belt, "with the coming of cold weather and snow the prevalence of hog cholera has greatly abated and losses since December have been comparatively light. While losses have not been nearly so large as in some previous outbreaks of the disease, they have created a wholesome reaction to the necessity of keeping swine herds protected.

"Latest information has not mate-



A Bunch of Native Lambs that Has Not Sustained a Single Loss Because the Owner Saw Early that they were Treated for Worms.

there was much the same—so there is not a bit of doubt that the digestion of the lambs was much conserved, and their bodily vitality sustained rather than abused by eating washy grass and lying out in bad weather.

The lambs shown in the picture are natives, and though a lot of loss has been sustained this year by handlers of natives, this band has got by without mortality. This accumulation of small bunches of native lambs has to be carried out with a lot of discretion. If they are going to be drenched for worms, they can't be drenched too early. If the owner waits until they begin to "drop off" there is bound to be a big sprinkle of others so far gone that nothing in the way of a drench will pull them out of the weakened condition they have gotten into by harboring worms so long.

A few years ago I saw a small barn of native lambs that went into winter with fine forecasts, but before they had rounded out the feeding period it became evident enough that they had become mighty ticky. In fact, there are a whole lot of lambs bought and put into barns without any individual handling to speak of—and the lambs referred to were too ticky, but the new owner didn't discover it at the right time.

The same thing applies to worms and a whole lot more so. A farmer often will stand and look at a bunch of lambs and wonder if they are wormy, or how wormy they are—when the thing he should do is to get at them and examine the skin and membranes of the mouth and eye and see if those lambs are really red-blooded lambs, or pale, yellowish-skinned, sal-low-gummer critters. The skin of a healthy lamb is bound to be pink and his gums must be pink, and if they are not pink, something (and usually it is worms), has sucked the red blood out of him and nineteen to nothing so filled him with poison that the red blood cells can't be restored before the lamb is totally dead. Such a pale, paper-skinned lamb is just as well as dead except for purposes of trade with a buyer who doesn't know wormy lambs when he sees them.

There are several ways of getting a bump besides trying to walk a tight rope without knowing how—one is

rially changed the estimate of losses made in late November, when the total number of hogs killed by cholera was placed at approximately 1,500,000. This avoidable loss to swine growers of the middle west has awakened interest in practices that make for better and healthier herds, particularly the timely use of anti-hog-cholera serum as a preventive treatment.

"In all the states visited there was noted the same general sentiment in favor of protecting the spring crop of pigs through immunization. Farmers, no doubt, will realize that the treatment is not so expensive after all, if used when the litter is young, say about seven or eight weeks, when the pigs weigh from thirty-five to forty pounds. It will be found the best kind of insurance in sections where hog cholera is more or less prevalent every year. A system of yearly immunization in such territories is bound to be of much benefit to the swine industry."

SUPERVISORS STUDY FARMERS' WANTS.

THE Emmet county agricultural committee of the county board of supervisors recently met in Petoskey to make plans for the year's program of extension work. Delegates of the various agricultural interests in the county attended the meeting and presented their ideas of the work which would be of most interest to their particular lines of farming. Potato growers, dairymen, and truck gardeners told the committee the projects which would be the most helpful to them. From these suggestions a program of work will be planned by the committee and the county agricultural agent, S. J. Culver.

ASK FOR SOIL PROGRAM.

COUNTY Agricultural Agent H. H. Barnum, of Cass county, reports that the farmers of the county are in favor of a definite soils campaign which will take into consideration the correction of soil acidity and the increase of soil fertility by the use of legumes, such as red clover and alfalfa, and the use of commercial fertilizers.

Free Trial of Proved Swedish Abortion Treatment

Famous Foreign Formula quickly relieves badly infested herds. Gives amazing results in cases believed hopeless.

Thousands of American Farmers say the Froberg Swedish Abortion Treatment has saved their herds from destruction. This remarkable treatment has been used with complete success in the big dairy herds of Sweden for many years, and has cleaned up whole districts over there literally rotting with contagious abortion.



It was only after great expense of time and money that this secret formula was made available to American Farmers. During the past nine years the treatment in American herds has given all the amazing results that made it so famous abroad. Herd after herd has been rid of this disease. Even cows considered hopeless by veterinarians have yielded to its healing qualities and been restored to health and produced fine vigorous calves.

SAVED HIS HERD

David Mohr, Jenison, Michigan says: "Last year I raised only one good calf out of 14 cows bred, all other calves were aborted. I was desperate. I used your C. C. C. treatment. This year with the same herd I have not lost a single calf. It's wonderful. My neighbor lost 3 calves in a few days—I gave him some C. C. C. and it stopped the trouble right there."

The fame of Cow Calf Control (C. C. C.) the name of this treatment has spread from breeder to breeder. Today it is put out only on an absolute binding guarantee that it will stop every case of abortion; that every cow treated will deliver a normal calf, or the treatment cost is refunded. Two reliable banks stand behind our guarantee. You can't lose. C. C. C. is practically 100% successful.

SEND NO MONEY

Mr. John W. Froberg, a native of Sweden and a large dairy owner, is responsible for introducing C. C. C. into this country. He has made the treatment easy to give, and at a cost per animal that every farmer will gladly pay.

Write today for full details explaining our free trial offer. Just send your name and address without further obligation to FROBERG REMEDY CO., 13 Lincoln St., Valparaiso, Indiana

Write Your Own Guarantee!

Put down in black and white what YOU want your Silo to be. Then let that stand as OUR Guarantee of the

COPPER METAL SILO

Most Modern, Most Practical Silo, COPPER-IZED Metal throughout. Many exclusive features. Backed by 23 years of Experience and Responsibility. Tell us what size silo you want so we can quote factory-to-you prices. Special discounts on early orders.

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Buckeye Breeder Houses, Corn Crib, Grain Bin

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The last word in a permanent silo. Write for interesting free illustrated fact-proving literature. Tells how we manufacture silos under the best known processes—and not stopping at that—how we erect them for you in a few days from ground to peak.

Special Terms if you order Now!

Agents wanted in open territory.

MICHIGAN SILO COMPANY
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Learn about new Natco Silo—rot proof, wind proof, fire proof, practically same price as wood. Lasts a life time—needs no repairs—a permanent improvement that makes your farm more valuable. Natco Tile is hard as rock—everlasting. Reinforced with steel ribs. Dead air insulation keeps out frost, heat, dampness. Silage stays sweet, nourishing. Write for FREE booklet.

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It Pays to Keep A Bottle Handy

A bottle of Gombault's—the old-time horse remedy. Have it on hand for use when you need it—keep your horses working. Used for 48 years for abscess, cuts, spavin, capped hock, curb, fistula, quittor and other ailments. Leaves no scars—no blemish. At your druggist, \$2.00 a bottle.

The Lawrence-Williams Co.
Cleveland, Ohio
GOOD FOR HUMANS, TOO

CATTLE

AUCTION SALE

MARCH 10, 1927

Location 3 1/2 miles south on M-65, and 2 1/2 miles west of Fenton.
Stock and tools, 15 head of Reg. Holstein cattle, 10 cows fresh or due soon, daughters or granddaughters of King Ona, Maple Crest Korndyke Henserveld, Angie Ferndale, Glen Alex and Travers Echo Segis Model. Sale starts at 10:00 A. M. Cattle sold 2:30. B. J. MORTON, Fenton, Mich., R. 4.

BUTTER BRED JERSEY BULLS
CRYSTAL SPRING STOCK FARM,
Silver Creek, Allegan County, Michigan

FOR SALE, my entire herd of Jersey cattle, 30 cows including seven 2-yr.-old heifers, 5 yearling heifers and 7 heifer calves. Also 2-yr.-old herd bull COLON C. LILLIE, Cooperaville, Mich.

Choice Jersey Bulls ready for service, and bull calves, for sale from R. of M. dams accredited herd. SMITH & PARKER, Howell, Mich.

HEREFORD STEERS

CALVES, YRL'S & TWO'S. Well marked, beef type, showing splendid breeding. Dark reds. Most all bunches dehorned. Good stocker order. Can show few bunches around 45 to 90 head. Each bunch even in size. Also a few bunches Shorthorn steers. Will sell your choice of one car load from any bunch. Write, stating number and weight you prefer, 450 lbs. to 800 lbs.

Van D. Baldwin, Eldon, Wapello Co., Iowa.

FOR SALE PURE-BRED POLLED SHORTHORNS

High class cows and heifers at reasonable prices, some show ring prospects. 15 years select breeding. You will be suited.

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

THE STANLEY J. GARDNER HERD, Crosswell, Mich.

"MILKING SHORTHORNS"

Why buy without milk records? We don't keep our cows, they keep us. If you want a real bull calf that will breed more milk into your herd and still retain your good fleshing qualities, call on us. Also females. Circulars and photos on request.

SHORTHORNS For sale, several good cows with calves at foot, and bred again. Also bulls and heifers sired by Maxwilton Mock or Edglink Victor, two of the good bulls of the breed. Will make very attractive prices on all of these cattle. GOTFREDSON FARMS, Ypsilanti, Mich.

Milking Shorthorns 2 red heifers and 1 cow, also bull 4 mos. old. T. B. tested. ELMER E. WESTBROOK, Crosswell, Mich.

Shorthorns Best of quality and breeding. Bulls cows and heifers for sale. BIDWELL STOCK FARM, Box D, Tecumseh, Mich.

FOR SALE 3 Registered Shorthorn heifers with calves by side. Also one yearling heifer. L. FOWLER, Hanover, Mich.

For Sale Three registered Shorthorn cows with heifer calves by side. T. B. tested. WESLEY DeGEAR, Morley, Mich., R. No. 1.

HOGS

DUROCS BRED SOWS AND GILTS SERVICE BOARS

Cholera immune, popular blood lines, typ. LAKEFIELD FARMS, Clarkston, Mich.

BERKSHIRE SOWS, registered, bred for April and May farrow. Write for prices of TALCOA FARM, R. F. D. No. 7, Lansing, Mich.

DUROC JERSEY Gilts bred for March and April farrow. NORRIS STOCK FARMS, Cassovia, Mich.

AUCTION

65 head Spotted Poland China bred sows and gilts, March 15, 1927. Bred to Monarch, big prize winner at World's Fair, and Indiana State Fair against heavy competition. Cholera immune. Send for catalog. OSCAR VOELKER, Pigeon, Mich.

BIG TYPE POLAND CHINAS. Bred gilts, big, smooth, stretchy. We like the good ones and believe you do. Write us. WESLEY HILE, Ionia, Mich.

O. I. C's. a good lot of bred sows and gilts, also last fall pigs. OTTO SCHULZE & Sons, Nashville, Mich.

AS YOUR BANKER WOULD SEE IT.

(Continued from page 318).

of strenuous activity, the collapse came suddenly. Physically and mentally the old man was done for, the savings of a lifetime were swept away, for the farm was taken back on a mortgage, and had they not had children to provide for them, this old man and his frightened and bewildered wife would have been public charges. It behooves every man over sixty to put his financial house in order, for such a man does not have reasonable promise of a margin of time sufficient to overcome adversity or to correct mistakes. In all kindness, the banker must sometimes withhold participation in ventures where the age of the promoter is an adverse element.

If the stupidities of age are the more tragic—the follies of youth are the more general. Too much optimism in youth, an over-rating of ability and of a seeming opportunity, may lead to the assumption of obligations that a more mature judgment disciplined in the university of hard knocks, would recognize as impossible to meet. The young man may cause serious loss to others, or he may enslave himself for the better part of his lifetime by being in too big a hurry. Taking advantage of the optimism, ambition and enthusiasm of youth is a great business as a multitude of so-distant correspondence schools attest. It is hardly necessary to observe that the conscientious banker will look with slight favor upon the idea of making a loan to a young man to pay the tuition for a correspondence course in aviation, auctioneering, or horse trading. The young farmer is too easy to sell to, he buys tractors and implements of untried and experimental design, and follows get-rich-quick farming fads and fakes.

The blunders of both youth and old age are not more serious than those of the fellow, regardless of his time of life, who jumps from one business, or branch of business, to another—the in-and-out crop plunger. Such a man becomes discouraged by the defects of the business in which he is engaged, or is carried away in enthusiasm by exaggerations of success in others, and flees to evils he knows not of. He sacrifices all the mental discipline and equipment of his experience, and soon finds himself confronted by perplexities he cannot meet. The one-crop plunger is the worst menace to agriculture. He is the fellow who spoils the farming game, yet he may be always out of luck. His changes may never coincide with the maximum price or production of any crop, and he may never meet prosperity, always being a year too early or too late. The banker must hold a check on this fellow, for he cannot venture the funds of his depositors in the speculations of the plunger, and he may do the prospective borrower great kindness in refusing a loan. It sometimes takes money to lose money.

The ability of the borrower should be in the line for which it is intended to use the funds of the loan. Ability in one line does not necessarily mean ability in another. This is true, even of different phrases of farm work. A good stock breeder is seldom a skillful mechanic, or an efficient machine operator, and a loan to a farmer to purchase feeder cattle might be advisable where one, to buy a tractor or threshing machine, would but result in loss. The experience and temperament of

(Continued on page 339).

SHEEP

Registered Delaine Ewes

fine ones, bred. F. H. RUSSELL, Wakeman, Ohio.

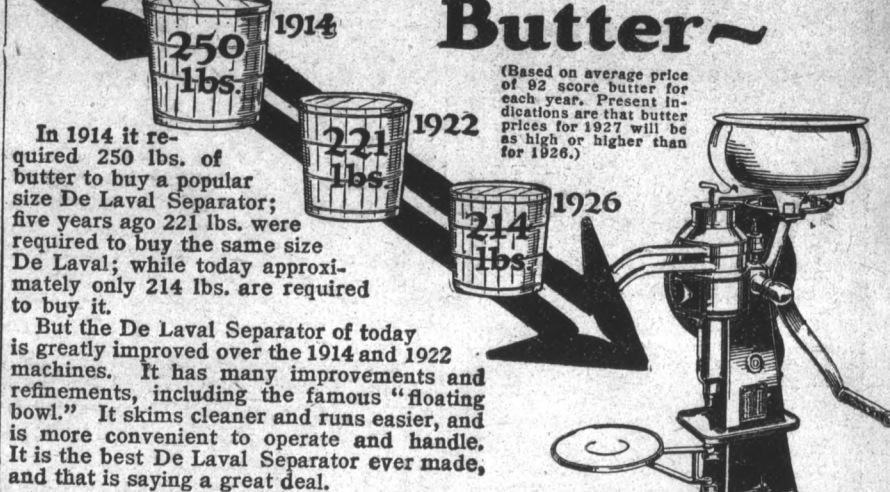
BRED EWES, Karakules, Cotswolds, Lincoln, Tunis, All recorded, sent on approval. L. R. KUNEY, Adrian, Mich.

MULES

TEAM OF MULES FOR SALE—well broke, 11 and 12-yr.-old, weight 2,400 lbs. NICK LAMBERT, R. No. 1, Gagetown, Mich.

WANTED—team mules, young, gentle, well broke, honest even pullers, not less than 1,200 lbs. weight. Address Box 50, Michigan Farmer, Detroit.

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See—Try—and Trade

See and try the De Laval. Run the skim-milk from your old separator through it. If you are losing any butter-fat the new De Laval will surely recover it. Thousands of people have tried this simple test and many have been surprised at the saving made by the new De Laval. Trade allowance made on old centrifugal separators of any age or make.

See your De Laval Agent or send coupon for full information.



One Lever Locks 2 to 50 Cows

THE greatest time-saving convenience ever invented in barn equipment is the West Bend Automatic Stanchion with locking, releasing lever—the original, lever-operated, swinging stanchion. Costs no more than ordinary stanchions that must be closed and opened singly by hand. It also assures safety in locking up or releasing cows. One throw of the lever locks or releases the entire row of cows, controls from 2 to 50 stanchions. Cow stops are operated at the same time, guiding the cows into the stanchions. Enthusiastic owners everywhere. Write today for big free catalog showing complete line of West Bend Barn Equipment.

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West Bend, Wis. Syracuse, N. Y.
Write nearest office, Dept. F

Sale Announcement ON WEDNESDAY, MARCH 9, 1927

I will sell at auction the following described live stock and dairy equipment:

25 head of pure-bred Holstein cattle, 30 head high grade Shropshire sheep, 1 new DeLaval milker used less than six months, aerator, milk cans, gas engine, feed grinder, cornstalk shredder, etc.

This herd consists of 11 cows, most of them fresh since first of January, 5 yearling heifers, 5 heifer calves, 3 extra good bull calves (2 to 6 months of age), and the herd sire, Prince Walker Calamity Wayne 162950, formerly owned by S. H. Munsell, of Howell, Treas. of the State Holstein Assn., and pronounced by experts as one of Michigan's few proven sires. This herd represents a combination of type and production second to none, has seven years of cow-testing records, and during the past year completed an average record of 12,947.5 lbs. of milk and 431.7 lbs. of butter-fat. During the last 4 years the herd has averaged almost 400 lbs. of fat. They have for 3 consecutive years won the Farm Bureau silver cup given in this county to the herd showing the greatest net profit per cow, and have been outstanding in their winnings at the Kalamazoo Co. Fair, where competition is keen.

The sheep consist of 10 ewe lambs and 20 bred ewes due March 10, bred to one of the best pure-bred bucks obtainable. They are from a flock that has weighed over 11 lbs. for the past 5 years, and have produced lambs weighing 102 1/2 lbs. to 115 lbs. when taken from pasture. They are as outstanding in every way as are the cattle.

J. Roy Buckham

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Originators and most extensive breeders. Write for HogBook

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O. I. C. GILTS Bred for April Farrow
H. W. MANN, Dansville, Mich.

LARGE TYPE P. C. Bred gilts all sold. Fall pigs, inspection invited. Expenses paid if you are not satisfied. W. E. LIVINGSTONE, Parma, Mich.

LARGE TYPE POLAND CHINAS Bred gilts, large size and good breeding. JAMES G. TAYLOR, Belding, Mich.

A Few good Hampshire spring boars at bargain. Place your order for bred gilts. JOHN W. SNYDER, St. Johns, Mich., R. 4.

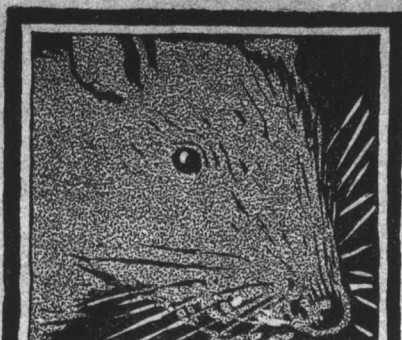
HORSES

FOR SALE 1 Pure-bred Percheron mare coming three, 1 pure-bred stallion coming two years old. Also some registered Shorthorn cows, 5 two-year-old heifers and some nice yearling bulls; all are milking strain. AUGUST WALDO, Morley, Mich., R. No. 3.

Black Percheron Stallion For Sale
Sound and sure. Well bred and a good individual. J. G. SCHIPPER, Holland, Mich., R. No. 9.

One Registered Belgian Stallion
4 yrs., wt. 2000. One Registered Belgian mare, 7 yrs., wt. 2100. One Registered Belgian mare, 2 yrs., wt. 1800. ROBT. L. ROBINSON, Caro, Mich., R. No. 1.

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Take no risk with rat poisons. Protect your stock—get rid of rats at the same time. You can do that now. This new scientific way is certain, easy, safe! Safe for your stock, safe for your family, safe for you.

Not a poison

K-R-O is made from powdered squill, the new, safe way urged by U. S. Dept. of Agriculture. Forcibly fed in large doses to cats, dogs and chickens, it failed to kill or injure. But a 10% dose killed rats every time.

Save your stock

Think what that means to you! Your farm rid of rats. Safety for your family, safety for your stock. Losses caused by rats a thing of the past! Sprinkle K-R-O freely in barns and buildings, or right in your home. Sold on absolute money-back guarantee. 75c at your druggist's, or postpaid on receipt of 75c stamps or money order. Get the genuine K-R-O.

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Coleman Quick-Lite
"The Light of a Thousand Uses"

Always ready for any job, any night. Makes own gas from common gasoline. Lights with matches. Mica chimney makes it wind-proof, rain-proof, bug-proof. 40 hours' brilliant service per gallon of fuel. Can't spill fuel even if tipped over. Sturdily built of brass and steel, heavily nickled. U. S. Price \$7.50.



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MAKE EXTRA MONEY by having us make up your wool into beautiful, warm blankets and auto robes. We will do this for a nominal charge or take payment in additional wool. Satisfaction guaranteed or all charges repaid. You have everything to gain and nothing to lose.

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DOINGS AMONG THE HOLSTEINERS.

THE first county Holstein association to bust loose in 1927 was Tuscola. Some forty-three breeders took part in the annual meeting held in the Court House at Caro.

Calf club work monopolized the time as a subject for discussion. This is to be expected in a county which has shown for three successive years the grand champion calf club female at the Michigan State Fair. The club work, already well established, is to be pushed by the county Holstein association through the following deputies elected: Wilson Spaven, of Cass City district; B. B. Reavey, of Caro; Grover Bates, of Vassar; George Keinath, of Millington; Murray McCollum, of Unionville.

Sales of surplus stock also attracted attention of the assembled breeders. The official county sales manager, B. B. Reavey, reported selling \$3,135 worth of pure-bred Holsteins last year, all placed in new homes in Tuscola county. Mr. Reavey was re-elected. He foretold more business than ever in 1927 because the county was now in process of testing for eradication of bovine tuberculosis, under state and federal supervision. A clean county, Reavey judged, would appeal to out-of-state buyers of Holsteins.

Officers elected by the board of seven directors, which was chosen by the breeders, include: V. J. Carpenter, of Cass City, president; Wm. Darcy, of Kingston, vice-president; G. W. Foster, of Fostoria, secretary.

Cass County.

From the interest shown by ten hardy souls who wallowed into Cassopolis through the beautiful snow a few weeks ago, it was judged well worth while to revive the long defunct Cass County Holstein Association.

A "Steering Committee" of five, with Benjamin McCleary as chairman, was elected. This committee has arranged a general meeting for Holsteiners for Saturday, February 26, at Dowagiac. Plans for perfecting the new organization will be laid that day. As a special attraction at this meet, E. M. Clark, of the extension service of the Holstein-Friesian Association of America, will discuss ways of marketing Holstein milk.

Berrien County.

Not to be outdone by a neighboring county, Berrien staged a Holstein rally that was a hummer. The meeting place was the Emmanuel Missionary College, Berrien Springs. This was an appropriate trysting point, as the college maintains a fine herd of pure-bred Holsteins; the visiting breeders were much interested in this bunch, which has been selected—yes, the poor pure-breds actually beefed!—by S. A. Smith, in charge. The new herd sire is a son of the famous Sir Bess Ormsby Fobes.

After viewing the bossies and dining at the College Cafeteria, "free gratis for nothing," the Holsteiners decided the cow deserved a backer in Berrien county. So a general meeting was set for Friday, February 25, to rejuvenate the old County Holstein Association. The Berrien boys are getting this meet in one day ahead of that slated by their neighbors, the Cass county cow men. Mr. Clark will meet with the Berrien breeders on February 25 at the college, Berrien Springs. S. A. Smith, of the college, is general chairman in charge.

This Berrien-Cass uprising right in the stronghold of headquarters for another good dairy breed, shows the Black-and-Whites are not all dead yet! Clark's pointers on selling Holstein milk should appeal to men in this section who are facing real competition in marketing moderate test milk.—J. G. H.

Washtenaw.

Probably the "meetingest" county Holstein Association in the state, is Washtenaw. At Saline they threw a feed. One hundred twenty-five were

out; a show, "Mrs. Stubbins, Book Agent," put on by local dramatists; music by men's chorus, cornetist, B. E. Beach, of the Michigan Milk Producers as orator; speeches by Hagen, the new county club leader; by Webb Harwood, the club boy that won last year, the annual trip to the National Dairy Show, provided by the Washtenaw Holstein Association for the most deserving Holstein calf club boy; and—well, this ought to be report enough to convince any fair reader that Washtenaw lived up to its reputation. Just for good measure, might add that Wm. Austin, the county sales manager, turned over to the association treasurer, some \$200 as portion of a commission on sales engineered by him for association members last year.

New officers include Frank Gerger, of Rushton, president; Wm. Austin, of Saline, vice-president; Mark Lathers, of Milan, secretary-treasurer.

Shiawassee.

Following the usual custom, breeders in Shiawassee county chose to deliberate over the banquet board. This year the feed was held in Owosso. Professor Pettit, "bugologist" of Michigan State College, was the heavy speaker, talking on the corn borer. H. W. Norton, Jr., in general charge of the 1,400-cow herd owned by the state of Michigan, gave some interesting dope on the make-up and the production of some of the individual parts of this herd owned at various state institutions. Elmer Shadbolt told what cow testing association work had done for him in herd building. The Fine Sisters, juvenile song and uke artists, of Shiawassee county, scored a regular hit as entertainers.

President for next year will be C. S. Baldwin, of Bennington. Mrs. Burt Nowlin, of Owosso, the only lady secretary of a county Holstein association in Michigan, was re-elected.

Eaton.

Junior Holsteiners held the center of the boards in Eaton county when the county Holstein association met in annual convention. Miss Margaret Hough, president of the Grand Ledge Calf Club, was the only lady clubbist present, but seven boys interested in calf club work were on deck. Three of these, Herbert Jackson, Elmer Twitchell and Robert Hunt, gave short talks on club activities in Eaton county, and on the showing made by club calves at the fair, notably the National Dairy Show. Ribbons provided by the Holstein-Friesian Association of America, were presented to the lucky owners of calves placed in county and state competition.

That the older Holstein folks are solidly behind the juniors was shown in a motion they passed authorizing the board of directors to render such pecuniary assistance to club members as seemed advisable and opportune. Encouragement was also evidenced in the election of Robert Hunt, club boy, to the board of directors.

Other officers were: L. C. Hunt, of Eaton Rapids, president; E. P. Reynolds, of Olivet, vice-president; A. N. Houcks, of Charlotte, secretary-treasurer. Charles Miller, of Eaton Rapids, was elected calf club leader, to work with County Agent Taylor and State College specialists in pushing calf club work for young Holstein enthusiasts.

Jackson.

The Holstein crowd in Jackson county invited in their friendly exponents of other brands of cattle to a dairy meeting at Rives Junction. B. T. Beach, of the Michigan Milk Producers, talked on problems of selling milk. In order that the advocates of different breeds might camp in peace to harken to Beach, a pot-luck feed was perpetrated in advance of the oratory.

Besides the main talk, there was room on the program for a male quartette, and for a good stunt put on by local talent. This consisted of a one-minute speech by a man booming the breed of his particular choice; there were four such propagandists and—



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DOUBLES HOG PROFITS

Best Equipment For McLean System

YOU can farrow pigs in zero weather with 100% safety—get two litters yearly from each sow—and make the early markets when hog prices are highest with the

ECONOMY HOG HOUSE

—a perfect farrowing house which ten minutes work changes into a year round hog house. This house has separate pens for six sows and their pigs; has brooder stove in center with six separate little pig pens under it where pigs can keep snug and warm and away from sow. Keeps them warm in coldest weather. Five cornered pens and brooder gate protect pigs from being laid on. Makes early farrowing profitable.

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Raise 16 to 20 Pigs Per Sow Yearly
Hog raisers all over the hog belt are doing this. So can you by using the Economy Hog House the year round. Actually costs less than if you built it yourself. Get this patented, centrally heated hog house now and make more money than ever before. Farmer Agents Wanted.

Limited Number of Territories Open.

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Send catalog and agents proposition to:

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by using **Aborno**, the pioneer, guaranteed remedy for Contagious Abortion. Write for free booklet today.

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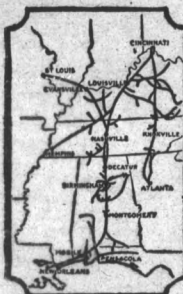


Patent Tool Control

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FARMING PAYS in the SOUTH

Pays well, because of the distinctive advantages the South affords farmers: such as *Climate*, permitting outdoor work every month in the year; low-cost *Living* for farmers and their hired help, which makes farming all the more profitable; *Land* on which varieties of crops can be abundantly grown; cheap and reliable farm *Help*. Add to these advantages those of good *Neighbors*, good *Schools* and good *Roads*—and happy is the farmer who lives in the South.



Write and say what kind of farming you want to do, and full information as to where and how you can do it in the South, will be sent free. Address G. A. Park, Gen. Imm. & Ind. Agt., L. & N. R. R., Dept. MF-11 Louisville, Ky.



Top of the Market

You can do it—get better prices, more garden profit; make more money—have healthier crops, bigger yield, finer produce, if you **USE ISBELL'S SEEDS**

Why experiment—use tried proven seeds that have made good for 48 years. Write today for 1927 Annual. IT'S FREE. Tells all about varieties, soil, when to plant, etc. Post card will bring it.

S. M. ISBELL & CO. Seed Growers (95)
321 Mechanic St. Jackson, Michigan

FREE TRIAL TUBE

Send postal or coupon

"ALL MY CUSTOMERS SAY—NOTHING EQUALS IT FOR ACHES AND PAINS"

McCONNON'S PRODUCTS

One of the 150 A Quarter Century of Quality

FREE TRIAL TUBE JUST MAIL COUPON

McConnon & Co., Desk R 1303 Winona, Minn. Please mail me a FREE TRIAL TUBE of Rheum-Nall.

() I might be interested in becoming a "McConnon Man."

Name _____ Address _____

here's the fun—all four talked at once! The Holstein booster won the prize, naturally, since he not only had the best breed to harangue upon, but the three judges were "Holstein ladies."

In the strictly Holstein portion of the meeting, Ben Smith, of Rives Junction, was re-elected president; Dennis Cobb, of Parma, vice-president; Arthur Perrine, of Rives Junction, secretary-treasurer. These officers, with the board of directors, were instructed to choose suitable projects for association activities during the present year.

Walter Reading, of Brooklyn, was elected county sales manager.

St. Clair.

The rally of Holstein breeders of St. Clair county, at Port Huron, on January 25, marked the last of the "uprisings" in Michigan for the mid-winter.

A committee of five, with Phillip Stein, of Port Huron, as chairman, was elected and authorized to lay out a program of activities for the St. Clair Association to follow. This committee will undoubtedly include in their plans, attention to showing at the county fairs, and at the State Fair, as the breeders seemed much interested in such projects.

J. G. Hays, secretary of the Michigan Holstein Association, was instrumental in arranging these various meetings, and was present at each, appearing on the program with a report of the Holstein outlook and doings from a national, state and local angle.

AS YOUR BANKER WOULD SEE IT.

(Continued from page 337).

professional men, doctors, lawyers, and teachers, is often no asset in business, and a hard working farmer so illiterate that he signs his note with a mark, may be a better risk than a brilliant agricultural college graduate who cannot coordinate his scientific knowledge with executive ability or hard work. It is a fact that education sometimes breeds a distaste for the hard work essential to success in farming. The force of this observation is, however, often exaggerated, and where the "book farmer" is a financial failure, a more searching analysis of many an example of bucolic derision discloses some handicap external to his mental equipment to be responsible.

The banker may be influenced to some extent by the marital status and family affairs of the borrower in considering loans dependent for payment upon personal qualities. With some exceptions, the rule is that the married man with the responsibility of a family, is the more stable, the more cautious, and ambitious. The mode of living, whether economical or lavish, may be considered. It is plain that a loan to meet debts incurred for living expenses is hazardous. Do not be surprised if you are refused a loan to pay a past due grocery bill.

VETERINARY.

Sore Shoulders.—Have horse which gets sore shoulder every time I drive her. She is about six years old. H. N.

Sore shoulders are usually due to some defect in the collar. Occasionally this may occur where horses have not been used with a collar for some time. Try bathing shoulders with salt and water.

Fails to Get with Calf.—I have a Holstein heifer two and one-half years old, that fails to get with calf. I have taken her to three different bulls several times, but she continues to come in heat. This heifer is being fed ground oats, beans and some cottonseed meal. For roughage she is getting mixed hay, cornstalks and bean fodder. I also have a Holstein heifer that is 18 months old that fails to come in heat. Both of these heifers appear to be in good health. C. M.

Failing to get with calf, also to come in heat, is usually due to a diseased condition of the ovaries. Feeds rich in protein also have some influence on this condition. It might be well to discontinue feeding ground beans and cottonseed meal. In a case of this kind, it would be advisable to have your local veterinarian examine them and determine what condition the ovaries are in, and give such treatment that he finds indicated.

Chicks from High Egg Production Stock

We Specialize in the Production of S. C. W. Leghorns and Barred Rocks

Hollywood and Ferris Strain Leghorns Barred Plymouth Rocks

Every bird in our flocks has been thoroughly culled by a recognized culling expert. Only birds with big, broad backs and long bodies, well carried out, having the large abdominal capacity that indicates the heavy layer are retained. All breeders are mated to Large, Vigorous, Healthy Males.

SEND FOR OUR 1927 CIRCULAR

Tells all the facts in detail, just why you should specify Bay View Leghorns, and Rocks, and how you can make big profits with poultry.

100% Live Arrival Guaranteed.

BAY VIEW POULTRY FARM

Route 1, Box M

Holland, Mich.

Town Line POULTRY FARM

Michigan Accredited 96 UNCULLED PULLETS LAY 7,611 EGGS FROM SEPT. 1, 1926, to JAN. 1, 1927.

writes customer from Muskegon, Michigan. This is an average of 21 eggs per pullet per month. YOU can do the same with our stock, which is the result of 14 years of breeding for SIZE, TYPE, WINTER EGGS and HIGH FLOCK AVERAGE, instead of a few high individuals. We have HOLLYWOOD, TANCRED, and ENGLISH type S. C. White Leghorns, SHEPARD'S Anconas, Brown Leghorns and Barred Rocks. Hollywood foundation stock from 250-290 egg record; Tancred foundation stock from 250 up egg record.

Barred Rocks. Our chicks are HEALTHY, VIGOROUS. Newborn hatched chicks from free range broods. The strongest proof of the quality of our chicks is that we have doubled our hatching capacity over last year. With "TOWNLINE" you also get "PERSONAL SERVICE. LARGE NEW CATALOG FREE.

NOTE THESE LOW PRICES.

English type S. C. W.	100 \$13.00	500 \$60.00	Anconas and Br. Leg.	100 \$14.00	500 \$65.00
Hollywood or Tancred	100 \$15.00	500 \$70.00	Barred Rocks	100 \$16.00	500 \$75.00

Chicks shipped postpaid. 100% live delivery guaranteed. Discount on early orders.

J. H. GEERLINGS, Mgr. R. F. D. No. 1, Box M, ZEELAND, MICH.

BABY CHICKS

MICHIGAN STATE ACCREDITED



Get Our FREE Illustrated Circular

Tells All About our Michigan Accredited Baby Chicks, White Leghorns, Anconas and Barred Plymouth Rocks. Prices as low as 9 Cents. Every Chick Guaranteed. Write Quick. Many orders now in from old customers.

MICHIGAN HATCHERY & POULTRY FARM, Box 2, Holland, Michigan.

BUY CONTEST QUALITY CHICKS

Of Proven Strains from a National Breeder for Greater Poultry Profits. 20% discount this month only. Our Oklahoma Contest Pen averaged 240 eggs. Ten other hens made official records of 270 eggs each. Winners at Chicago and National Egg Contests. \$8.31 official profit on Contest Pen. FREE Catalog tells all the facts. Tancred, Hanson, English, Ferris (Heasley Breed) Pullet, Hens, Males, Chicks. 1c per chick books your order and holds your shipping date.

First hen to date Missouri and Arkansas Laying Contests. Second Pen New York Contest. DR. L. E. HEASLEY FARMS, Dept. 13, Grand Rapids, Mich.



"DEPENDABILITY"

THROUGH THE YEARS we have earned the name of producing DEPENDABLE CHICKS. The development of first-class stock has been rewarded by the confidence and satisfaction of our customers. MICHIGAN "ACCREDITED" CHICKS. Purebred Bloodtested parent stock. Two leading breeds S. C. White Leghorns and Barred Plymouth Rocks. Write for catalog

RICHARDSON HATCHERY, Dundee, Mich., Box B

Saves Losses

Ross Brooder House ROSSMETAL Galvanized. Near round—no corners for crowding—vermilion and rat proof. Diameter 12 ft. Combination Ventilator and stove flue. Glass windows. Capacity for 500 chicks.

Special concession for new units today.

ROSS CUTLER & SILO CO. Springfield, Ohio

319 Warden Street Makers: ROSSMETAL Silos, Hog Houses, Corn Cribbs, etc.

"10 to 40 Years of Service With Clark 'Cutaway' Harrows" Say These Farmers

"I have a Clark 'Cutaway' Harrow that my father bought nearly 40 years ago. When he died 18 years ago it came into my possession, and I reckon it has been used every year since it was bought. I run a two-horse farm and use it a good deal."—J. F. McConnell, Ashland, Ga.

"Send me prices of parts of your Clark 6-ft. Reversible Extension Harrow. I have had it 16 or 18 years; it is the finest cultivator in an orchard I ever used and I have tried out several kinds."—F. G. Pickering, Joliet, Montana.

"Send me the price of a set of wooden bearings for a two-horse Reversible Single Action Harrow. I bought this harrow from you over 10 years ago. It has rendered satisfactory service year after year in spite of the fact that it received the roughest usage of any tool on the farm."—J. Philip Detch, Nashoba, Mass.



Clark CUTAWAY Single Action Harrow fitted with cutout or solid disks of outlery steel, heat treated and forged sharp for better work. Reversible gangs. Light draft. Disks carry weight of machine. Made with extension heads for orchard work. Mail coupon for free catalog and book, "The Soil and Its Tillage."

The Cutaway Harrow Company 704 Main St., Higganum, Conn.

Please send me FREE your catalog and book, "The Soil and Its Tillage."

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Blood Tested Baby Chicks

Selected for quality and heavy laying. Three leading breeds, B. P. Rocks, R. I. Reds and S. C. White Leghorns. 100% live delivery. Write for catalog and price list.

Carleton Hatchery, Carleton, Mich.

MICHIGAN ACCREDITED CLASS A CHICKS

from well developed, strong, healthy layers. S. C. Eng. White and Brown Leghorns; Sheppard's Anconas; B. I. Reds and Assorted Chicks. No money down. Pay a week before chicks are shipped. 100% live delivery. Postpaid. Catalogue free. THE BOS HATCHERY, R. 2-M, ZEELAND, MICH.

BABY CHICKS

from free range, good laying and culled flocks. 12 varieties 8 cents up. 100 live prepaid. Free circular and prices.

ST. STEPHEN HATCHERY, St. Stephen, Ohio.

We'll Both Be Pleased

if you purchase Gilt-Edge chicks. Trap-nested and standard bred. Write for free circular. GILT-EDGE BARRED ROCK FARM, Gobles, Mich.

WHY PAY MORE?

Improved model is greatest milking machine value on the market. Only quantity production makes such prices possible. Expertly designed. Highest quality throughout. Heavy pressed seamless aluminum pails. New Departure ball bearings. Easily cleaned. Cows like it and give more milk.

J. P. Johansen, of Iowa, one of the hundreds of happy users says, "I am milking 20 cows and have 3 single units and cannot praise your machine too much."

Send for Booklet No. 40 showing models for every purpose: single, double, double single, double double, etc. Agents: Still some open territory. Write for attractive proposition.

Myers-Sherman Company 213-15 N. Desplaines Street, Chicago, Ill.

New Improved Fords Milker \$90

Single Unit Complete Electric or Gas Engine



THE LATEST MARKET REPORT



GRAIN QUOTATIONS.

Tuesday, March 1.
Wheat.

Detroit.—No. 2 red at \$1.36; No. 2 white \$1.37; No. 2 mixed at \$1.35.
Chicago.—May \$1.40%; July \$1.34%; September \$1.31%.

Toledo.—Wheat, No. 2 red at \$1.35 @1.36.

Corn.

Detroit.—No. 2 yellow 76c; No. 3 yellow 72c; No. 4 yellow 68c; No. 5 yellow 63c.

Chicago.—May 78½c; July 82½c; September 86c.

Oats.

Detroit.—No. 2 Michigan 51c; No. 3, 48c.
Chicago.—May at 46½c; July 47½c; September 45½c.

Rye.

Detroit.—No. 2, \$1.06.
Chicago.—May \$1.06%; July \$1.04%; September 99¾c.

Toledo.—Rye \$1.05.

Beans.

Detroit.—Immediate and prompt shipment at \$4.20 f. o. b. shipping points.

Chicago.—Spot Navy Michigan fancy hand-picked, in sacks, \$4.90; dark red kidneys \$5.75 to wholesalers.

New York.—Pea domestic at \$4.75 @ 5.50; red kidneys \$6.75 @ 7.25 to wholesalers.

Barley.

Detroit.—Malting 83c; feeding 71c.

Seeds.

Detroit.—Cash red clover at \$24.75; cash alsike \$22.75; timothy, old \$2.45; new \$2.60.

Hay.

Detroit.—No. 1 timothy at \$18 @ 19; standard \$17 @ 18; No. 1 light clover mixed \$17 @ 18; No. 2 timothy \$16 @ 17; No. 1 clover \$18 @ 19; oat straw \$13 @ 14; rye straw \$14 @ 15.

Feeds.

Detroit.—Winter wheat bran at \$36; spring wheat bran at \$35; standard middlings at \$37; fancy middlings at \$41; cracked corn at \$34; coarse corn meal \$32; chop \$33 per ton in carlots.

WHEAT.

Wheat prices sagged early in the past week, with a strong rally at the close. The market still lacks any indication of taking a sustained trend. The slowing down in milling and export demand resulted in another moderate increase in the visible supply. New crop developments point to a substantial yield of winter wheat. The trying period is still ahead, however, as the crop is made or marred largely in April and May. The small stocks at Chicago continue as a strengthening factor in the general situation. Arrivals of southern hemisphere wheat at European markets have increased and the recent high premiums for spot wheat have begun to fade away.

RYE.

The rye market has shown more firmness than any other grain. The seaboard reports export sales from week to week, although many of them are for shipment after the opening of lake navigation. Actual clearances are small and the visible supply is not diminishing rapidly.

CORN.

Demand for corn has quickened occasionally during the winter, but has shown no sustained activity. Offerings from the country have dried up at times, but have been more than adequate for the consuming demand right along. As a result, the accumulation of corn at terminals is still in progress. Corn prices declined several cents during the past week, but have closed on a fair rally. Speculative buyers have had a difficult struggle owing to the big load to be carried, as indicated by the size of the visible supply, and were obliged to liquidate

their holdings. The next few weeks should see a change for the better, however, with smaller receipts during the past week, but closed on a fair rally. Speculative buyers have had a difficult struggle owing to the big load to be carried, as indicated by the size of the visible supply, and were obliged to liquidate their holdings. The next few weeks should see a change for the better, with smaller receipts during the planting season and improvement of demand from some sections where the local supplies are approaching exhaustion.

OATS.

Oats prices also were weak recently. Demand is a little more satisfactory than for corn, especially as far as high grades are concerned. The visible supply is nearly as large as it was two months ago, but the season for important reductions has not yet arrived. It totals 44,348,000 bushels, against 60,279,000 bushels last year and a five-year average of 50,000,000 bushels.

SEEDS.

Mild weather has stimulated the seed trade and demand is picking up. Supplies of good grade domestic red clover seed are practically exhausted and the few sales in the past week have been made at higher prices. Demand for sweet clover seed has slowed down and prices are easier. Alfalfa seed was marked lower last week due to the inactive demand and heavy imports.

FEEDS.

Feed markets were largely unchanged last week. Consumers are buying only for immediate needs in the belief that prices may decline. Gluten feed and cottonseed meal were practically the only feeds to show any advance during the week.

HAY.

Demand for hay has been slow during the past week and low grades find no sale at all except at substantial reductions. Supplies of dairy grades of alfalfa are scarce and firmly held, but low grades are plentiful and hard to move. An ample supply of forage has reduced the demand for hay in eastern Kansas, increasing the marketable surplus of hay. Receipts of prairie hay are limited and prices held steady.

EGGS.

The fresh egg market has dropped to a new low level for the season,

fresh firsts selling at Chicago for the lowest price at this season in ten years, at least. Mild weather is aiding production to make steady gains from week to week, and receipts at leading markets are nearly twice as large as during the first part of January. The recent declines in wholesale prices have been carried along to the retail trade, so that the consumer demand is large. Prices are believed to be close to the spring low point and any further progress into lower ground should not be extensive. Hatcheries are still taking a large share of the finest quality eggs.

Chicago.—Eggs, fresh firsts 23c; ordinary firsts 22c; miscellaneous 22½c. Live poultry, hens 28c; springers 28c; roosters 19c; ducks 32c; geese 18c; turkeys 30c.

Detroit.—Eggs, fresh candled and graded 24c. Live poultry, heavy springers 30c; broilers 45c; heavy hens 28c; light hens 30c; roosters 19c; geese 22c; ducks 35c; turkeys 42c.

BUTTER.

The butter market has weakened after a substantial advance at Chicago last week. The output of fresh butter is not making much progress at present, continuing to show a slight gain over the previous week, but failing to equal the corresponding week last year. Feed is short in many sections and all dairy feeds are considerably higher than a year ago, but the higher prices for butter-fat should prevent farmers from curtailing their feeding. Demand is slowing down in some cases as a result of the increased cost of butter, and the switching of the trade from storage to fresh so far has not fully offset the decline in demand, so that stocks of fresh butter in dealers' hands have been accumulating.

Prices on 92-score creamery were: Chicago 50c; New York 51c; Detroit, fresh creamery in tubs 48½ @ 49½ a pound.

WOOL.

Wool trade has been rather slow during the past week, but prices have been firm. Manufacturers are buying cautiously as the goods trade is not particularly brisk. It is probable that over 50,000,000 pounds have been contracted for in the west by this time. Activity has slackened to some extent because of higher prices asked by growers. Conditions point to stability in prices at about the present level, rather than to any further advance of consequence. Boston reports sales of Ohio delaine and half-blood at 45 @ 46c,

grease basis, and Michigan wools at two to three cents lower. Fine French combing territory sold at \$1 @ 1.05, clean basis, with half-blood combing at \$1.

POTATOES.

The potato market held barely steady last week. Supplies are liberal and demand is active. Planting of southern potatoes is fully ten days earlier than last spring, and acreage has been increased considerably over a year ago. The development of this crop will be an important factor in the market on old potatoes in another month. Northern round whites, U. S. No. 1, are quoted at \$1.80 @ 2.05 per 100 pounds, sacked, in the Chicago carlot market.

APPLES.

The apple market continues in the rut it has followed for many weeks. Supplies are liberal, demand is moderate, and prices are largely unchanged. New York and Michigan A-2½-inch Baldwins are quoted at \$4 @ 4.25, and A-2½-inch Rhode Island Greenings at \$4.50 @ 4.75 a barrel at Chicago.

GRAND RAPIDS.

Potatoes 90c @ \$1 bu; onions 90c @ \$1.10 bu; parsnips \$1 bu; carrots, cabbage and turnips 75c bu; leaf lettuce 8 @ 9c lb; radishes 50 @ 60c per dozen bunches; apples, Spys at \$1.75 @ 3 bu; other varieties 50 @ 75c bu; wheat \$1.16 bu; rye 74c bu; buckwheat \$1.50 per cwt; heavy hens 24 @ 28c; Leghorn hens 20 @ 23c; eggs 20 @ 23c; butter-fat 53c pound; beans \$4 cwt.

DETROIT CITY MARKET.

Apples 50c @ \$2.50 bu; beets 75c @ \$1 bu; cabbage 60 @ 85c bu; local celery 25 @ 75c dozen; carrots 60 @ 85c bu; dry onions \$1.25 @ 1.50 bu; root parsley 75c @ \$1.25 bu; potatoes 60c @ \$1.25 bu; turnips \$1 @ 1.25 bu; Hubbard squash \$2 @ 2.50 bu; pears 75c @ \$1.50 bu; leeks 75c @ \$1 dozen bunches; parsnips \$1.50 @ 2.25 bu; vegetable oysters 75c @ \$1 dozen bunches; root celery \$1.50 @ 2.50 bu; eggs, retail 40 @ 50c dozen; hens, wholesale 28 @ 31c; retail 32 @ 35c; springers, wholesale 30 @ 32c; retail 32 @ 35c; Leghorn springers, wholesale 25 @ 28c; veal 20 @ 22c; dressed hogs 17 @ 19c; dressed poultry, springers 35 @ 38c; dressed hens 35 @ 38c; ducks 45c.

FAT LAMBS REACH \$14.40.

The advance in the lamb market which started several weeks ago, has carried the top at Chicago to \$14.40. Average prices are the highest since early in November. The advance may carry still further before it culminates, but it is probably wise to assume that the bulk of the upturn is over. The market already is about \$2.00 over the December low spot. Fat ewes at Chicago reached \$9.00 in the last few days, while light yearlings sold at a new high of \$12.35.

Sheep raisers of Missaukee county have invited V. A. Freeman, specialist in animal husbandry, to hold a demonstration at Merritt in April, to show the best methods of controlling worms in sheep.

COMING LIVE STOCK SALES.

Holsteins.

March 9—Otto Meitz, R. 6, Mt. Clemens, Mich.
March 9—J. Roy Buckham, Kalamazoo, Mich.
March 10—Henry Wittig, Ithaca, Mich.
March 10—Bert J. Morton, Fenton, (Dispersal), Guy E. Dodge, Mgr.
March 29—Complete dispersal sale of Thornapple Hill Stock Farm Holstein herd. W. R. Harper & Sons, Middleville, Mich. Other live stock and tools on March 31.
March 31—Walter T. Hill, Davison, Dispersal, Guy E. Dodge, Mgr.
March 24—W. J. Sexton & Son, Durand, (Dispersal). G. E. Dodge, Manager, Cllo.

April 12-23—Wisconsin Holstein Sales Association—15 of the leading Holstein counties in Wisconsin cooperating—600 head of registered Holsteins. James R. Garver, Madison, Wisconsin, in charge of publicity and sales correspondence.

Poland Chinas.

March 15—Oscar Voelker, Pigeon, Mich.

Live Stock Market Service

Tuesday, March 1.

CHICAGO.

Hogs.

Receipts 20,000. Market on early trade mostly 10 @ 15c higher; butchers dragging; tops \$12.25; bulk better grade 150-200-lb. average at \$11.90 @ 12.15; 210-300-lb. butchers at \$11.50 @ 11.90; bulk packing sows at \$10.50 @ 12.75; few good strong weight slow; pigs \$11.90 @ 12.10.

Cattle.

Receipts 9,000. Mostly all killing quality, steady; vealers steady to 50c higher; killing quality fed steers medium to good; all heavy steers scarce; top at \$12.35; heavy bull yearlings at \$12; most fat steers \$9.25 @ 11; she stock active; bulls \$6 @ 7; heifers at \$7.25 @ 8; medium bulls at \$6.35 @ 6.50; vealers \$10.50 @ 12 to packers, outsiders \$14 @ 15.

Sheep and Lambs.

Receipts 13,000. Market is active; fat lambs 25 @ 35c higher; choice light weight up to \$15.75; early bulk good lambs \$14.75 @ 15.35; heavy lambs at \$14.50 @ 15.15; sheep are strong to 15c higher; fat ewes \$8.50 @ 9.25; best held higher; feeding lambs 25 @ 40c higher; medium to good \$13.75 @ 14.50.

DETROIT.

Cattle.

Receipts 200. Market steady.
Good to choice yearlings dry-fed \$ 9.75 @ 10.25
Best heavy steers, dry-fed 8.50 @ 9.50
Handy weight butchers .. 7.25 @ 7.75
Mixed steers and heifers 6.00 @ 7.00
Handy light butchers ... 6.00 @ 6.50
Light butchers 5.25 @ 5.50
Best cows 5.00 @ 5.50
Butcher cows 5.00 @ 5.50
Cutters 4.75 @ 5.50
Canners 3.50 @ 4.25

Choice light bulls 5.50 @ 7.00
Bologna bulls 5.50 @ 6.75
Stock bulls 5.00 @ 6.00
Feeders 6.00 @ 7.25
Stockers 5.50 @ 6.50
Milkers and springers... \$55.00 @ 100.00

Calves.

Receipts 675. Market steady.
Best \$16.50 @ 17.00
Others 4.00 @ 16.00

Sheep and Lambs.

Receipts 1,654. Market is steady to 25c higher.
Best lambs \$14.50 @ 15.00
Fair lambs 11.50 @ 12.50
Light to common lambs... 6.00 @ 10.75
Fair to good sheep..... 5.50 @ 8.50
Culls and common 3.00 @ 4.75

Hogs.

Receipts 1,611. Market is 10 @ 25c higher.
Mixed \$ 12.25
Roughs 10.25
Pigs and yorkers 12.50
Stags 8.50
Extreme heavies 11.00 @ 11.50

BUFFALO.

Hogs.

Receipts 1,100. Market steady to 10c higher; light lights \$13; bulk of light butchers \$12.75 @ 12.85; few 210-225 lbs. \$12.40 @ 12.50; 240 lbs. \$12.25; 350 lbs. \$11.50; packing sows \$10.50 @ 11.25.

Cattle.

Receipts 200. Market slow around steady.

Calves.

Receipts 100. Market is 50c lower; bulk of good at \$16.50 @ 17; culls and common \$13 down.

Sheep and Lambs.

Receipts 1,000. Market on fat lambs strong to 25c higher; bulk \$15 @ 15.25; culls \$12 @ 13.

Wet Beans

Will spoil quick and not be fit even for feed at this season of the year.

We offer farmers and shippers who have not drying facilities, our Drying and Storage service. Will buy at market or will handle for shipper's account. Our ability and equipment and reliability are unquestionable. Write for particulars, send sealed samples.

CHAMBERLAIN BEAN COMPANY,
Box 184,
Port Huron, Michigan

HOG PRICES APPROACH WINTER LOW POINT.

HOG prices have dropped back close to the low point for the winter. The Chicago average price fell back to about \$11.35 compared with the peak of \$12.30 late in January, and with the December low point of \$11.15. It seems likely that this break has discounted most of the weakness in the situation, so that the turning point may be at hand. Such a decline was not entirely unexpected, although it came about a month later than seemed probable.

Wholesale prices on hog meats are

one to one and one-half cents lower than last year, while lard is two cents lower. The number of hogs slaughtered under federal inspection from November 1 to February 28 totaled about 15,800,000 head, against 16,031,000 last year. Also, average weights have been lighter than last year. Average slaughter in this period in the last five years totaled about 18,700,000 head. The movement into domestic and export consumptive channels has been disappointing, so that product has accumulated in storage at a fairly rapid rate in spite of the moderate receipts, which have fallen off nearly a third since the middle of January.

CLASSIFIED ADVERTISING

This classified advertising department is established for the convenience of Michigan farmers. Small advertisements bring best results under classified headings. Try it for want ads and for advertising miscellaneous articles for sale or exchange. Poultry advertising will be run in this department at classified rates, or in display columns at commercial rates. Rates 8 cents a word, each insertion, on orders for less than four insertions; for four or more consecutive insertions 6 cents a word. Count as a word each abbreviation, initial or number. No display type or illustrations admitted. Remittances must accompany order. Live stock advertising has a separate department and is not accepted as classified. Minimum charge 10 words.

Special Notice

All advertising copy must reach this office ten days in advance of publication date.

One	Four	One	Four
10.....\$0.30	\$1.20	20.....\$2.00	\$8.00
11......50	2.00	21.....2.50	10.00
12......75	2.75	22.....3.00	12.00
13.....1.00	3.50	23.....3.50	14.00
14.....1.25	4.25	24.....4.00	16.00
15.....1.50	5.00	25.....4.50	18.00
16.....1.75	5.75	26.....5.00	20.00
17.....2.00	6.50	27.....5.50	22.00
18.....2.25	7.25	28.....6.00	24.00
19.....2.50	8.00	29.....6.50	26.00
20.....2.75	8.75	30.....7.00	28.00
21.....3.00	9.50	31.....7.50	30.00
22.....3.25	10.25	32.....8.00	32.00
23.....3.50	11.00	33.....8.50	34.00
24.....3.75	11.75	34.....9.00	36.00
25.....4.00	12.50	35.....9.50	38.00
26.....4.25	13.25	36.....10.00	40.00
27.....4.50	14.00	37.....10.50	42.00
28.....4.75	14.75	38.....11.00	44.00
29.....5.00	15.50	39.....11.50	46.00
30.....5.25	16.25	40.....12.00	48.00
31.....5.50	17.00	41.....12.50	50.00
32.....5.75	17.75	42.....13.00	52.00
33.....6.00	18.50	43.....13.50	54.00
34.....6.25	19.25	44.....14.00	56.00
35.....6.50	20.00	45.....14.50	58.00
36.....6.75	20.75	46.....15.00	60.00
37.....7.00	21.50	47.....15.50	62.00
38.....7.25	22.25	48.....16.00	64.00
39.....7.50	23.00	49.....16.50	66.00
40.....7.75	23.75	50.....17.00	68.00
41.....8.00	24.50	51.....17.50	70.00
42.....8.25	25.25	52.....18.00	72.00
43.....8.50	26.00	53.....18.50	74.00
44.....8.75	26.75	54.....19.00	76.00
45.....9.00	27.50	55.....19.50	78.00
46.....9.25	28.25	56.....20.00	80.00
47.....9.50	29.00	57.....20.50	82.00
48.....9.75	29.75	58.....21.00	84.00
49.....10.00	30.50	59.....21.50	86.00
50.....10.25	31.25	60.....22.00	88.00
51.....10.50	32.00	61.....22.50	90.00
52.....10.75	32.75	62.....23.00	92.00
53.....11.00	33.50	63.....23.50	94.00
54.....11.25	34.25	64.....24.00	96.00
55.....11.50	35.00	65.....24.50	98.00
56.....11.75	35.75	66.....25.00	100.00
57.....12.00	36.50	67.....25.50	102.00
58.....12.25	37.25	68.....26.00	104.00
59.....12.50	38.00	69.....26.50	106.00
60.....12.75	38.75	70.....27.00	108.00
61.....13.00	39.50	71.....27.50	110.00
62.....13.25	40.25	72.....28.00	112.00
63.....13.50	41.00	73.....28.50	114.00
64.....13.75	41.75	74.....29.00	116.00
65.....14.00	42.50	75.....29.50	118.00
66.....14.25	43.25	76.....30.00	120.00
67.....14.50	44.00	77.....30.50	122.00
68.....14.75	44.75	78.....31.00	124.00
69.....15.00	45.50	79.....31.50	126.00
70.....15.25	46.25	80.....32.00	128.00
71.....15.50	47.00	81.....32.50	130.00
72.....15.75	47.75	82.....33.00	132.00
73.....16.00	48.50	83.....33.50	134.00
74.....16.25	49.25	84.....34.00	136.00
75.....16.50	50.00	85.....34.50	138.00
76.....16.75	50.75	86.....35.00	140.00
77.....17.00	51.50	87.....35.50	142.00
78.....17.25	52.25	88.....36.00	144.00
79.....17.50	53.00	89.....36.50	146.00
80.....17.75	53.75	90.....37.00	148.00
81.....18.00	54.50	91.....37.50	150.00
82.....18.25	55.25	92.....38.00	152.00
83.....18.50	56.00	93.....38.50	154.00
84.....18.75	56.75	94.....39.00	156.00
85.....19.00	57.50	95.....39.50	158.00
86.....19.25	58.25	96.....40.00	160.00
87.....19.50	59.00	97.....40.50	162.00
88.....19.75	59.75	98.....41.00	164.00
89.....20.00	60.50	99.....41.50	166.00
90.....20.25	61.25	100.....42.00	168.00
91.....20.50	62.00		
92.....20.75	62.75		
93.....21.00	63.50		
94.....21.25	64.25		
95.....21.50	65.00		
96.....21.75	65.75		
97.....22.00	66.50		
98.....22.25	67.25		
99.....22.50	68.00		
100.....22.75	68.75		

REAL ESTATE

STROUT'S SPRING FARM CATALOG JUST OUT—Complete guide to bargains everywhere. 126 interesting pages, pictures and details of money-making properties, small and large farms, boarding houses, state road business places and summer homes on mountain, river and lake. Many at prices less than buildings' value, even less than a single year's income. A big bargain is 160 acres on pg. 23, only \$200 cash; good farming land, spring water and brook, substantial 6-room cottage, barn, other bldgs., convenient RR town, full price, \$1,000, includes farm tools, vehicles, crops. Be like the satisfied Strout buyer who writes: "I purchased a farm through you two years ago in May; I consider it worth twice the price I paid." Write or call today for this money-saving time-saving guide. Free. Strout Agency, 205 B. C. Kresge Bldg., Detroit, Mich.

FOR SALE—dairy farm, city limits of Clare. Can sell milk from 25 cows at 10 cents quart. If you are a dairyman and have the capital to buy the cows and equip farm, will sell on long payments. Address J. S. Bicknell, Clare, Mich.

FOR SALE CHEAP—60 acres, stock, grain and fruit farm. Good buildings and soil. Well fenced. One mile Onaway County Normal. H. S. Gillespie, Onaway, Mich.

FOR SALE—55 acres on M-29, 1 1/4 miles from Coldwater. Good land, good buildings, city electricity, exceptional value. Write to Howard Sweetzey, Coldwater, Mich.

FLORIDA LAND—10 acres. Orange Park, near Jacksonville. Good for gardening. Will exchange for fruit land near Detroit. John McCormick, 815 West Bethune Ave., Detroit, Mich.

FOR SALE—100-acre farm three miles from town. \$1,000 down, balance of equity 2% int. for ten years. Address J. S. Bicknell, Clare, Mich.

FRUIT FARM BARGAIN—13 acres, 1,350 fruit and nut trees, also berries, all bearing. H. J. Heard, Crosswell, Mich.

IMPROVED FARMS—resort lots and cottages, lake and river frontage. Some mighty fine bargains. U. G. Reynolds, Gladwin, Mich.

WONDERFUL OPPORTUNITIES—Southern Georgia farm lands. Write for complete information. Chamber of Commerce, Quitman, Ga.

FOR SALE—80 acres stock, grain and fruit farm. Good buildings and soil. G. A. Rouse, Bloomington, Mich.

WANTED FARMS

WANTED—by experienced farmer, furnished dairy farm on shares. Louis Rhoades, Davisburg, Mich.

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FARM TO RENT—Kalamazoo County, 120 acres. Write E. L. Grover, East Lansing, Mich.

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GOVERNMENT Forest Rangers Needed Frequently, \$125-\$200 month. Home furnished. Enjoy the outdoors. Particulars about home instruction. Free. Write, Ozment, 167, St. Louis, Mo.

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MATTRESSES made any size, low factory prices. Catalog free. Peoria Bedding Company, Peoria, Ill.

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FREE DOG BOOK—Polk Miller's famous dog book on diseases of dogs. Instructions on feeding, care and breeding with symptom chart. 48 pages. Illustrated. Write for free copy. Polk Miller Products Corp., 1022 W. Broad St., Richmond, Va.

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PURE-BRED German Police puppies from imported sire, price \$12 and \$15. Pine Hill Farm, Howard City, Mich.

NOTICE! COON HUNTERS—For sale, my A-No. 1 coon hound, cheap. Will allow trial. B. Kesterson, Sedalia, Ky. B. 204.

RABBITS—pure-bred Flemish Giant, 3 months old, weight 5 1/2 lbs. each. Unrelated, pair \$4.50. Leonard Norton, Three Rivers, Mich., R. No. 3.

TRAINED COLLIES and pups sent on approval. Book on training, fifth edition. \$1.00. Dundee Collie Kennels, Dundee, Mich.

COLLIES—stock dogs, beauties. Write for pictures. Cloverleaf Farms, Tiffin, Ohio.

GOOD RABBIT DOG—trained, fox hound stock, \$15. Bertrand Hardy, Boon, Mich.

SEEDS AND NURSERY STOCK

TIFTON'S RELIABLE PLANTS. Frost Proof Cabbage, Bermuda onions plants. Varieties: Copenhagen Market, Early Jersey and Charleston Wakefield, Flat Dutch, and Succession. Tomato plants. Varieties: Greater Baltimore, Bonnie Best and Livingston Globe. Prices: Postpaid, 250, \$1.00; 500, \$1.50; 1000, \$2.50. Express collect: \$1.50, 1000; 10,000 and over \$1.25 1000. We guarantee to ship size to please you. References: Bradstreet, Bank of Tifton, and Postmaster, Tifton Plant Co., Tifton, Ga.

HUNDRED ACRES IN VEGETABLE PLANTS—Ten years experience in growing plants, cabbage, onions, peppers, egg, tomatoes and sweet potatoes. Let us supply your needs in the line of plants and be the first one on the market. Our guarantee is strong, healthy plants and safe delivery. We do not substitute. Write for prices and give us a trial. Schroer Plant Farms, Valdosta, Ga.

REGISTERED and Certified Pickett Yellow Dent Seed Corn, fire-dried on racks, germination guaranteed. Certified and uncertified Wisconsin Six Row Pedigreed Barley. Uncertified Worthy Oats grown from certified seed. Certified Robust Beans. Good seed is scarce. Write for circular. Fairgrove Associated Seed Growers, W. R. Kirk, Secy., Fairgrove, Mich.

MASTODON LARGEST EVERBEARING STRAWBERRY—100 plants, \$3.50; 1000, \$25. Champion Everbearing, 200 plants, \$3.00; 1000, \$35.00; 1000 strawberry plants, \$3.00; Premier, 450; Cooper, \$6.00; 100 Black or Raspberry plants, \$2.00. 1000 Grape plants, \$15; 100, \$3.00. All plants guaranteed. Catalog free. Westhauser's Nurseries, Sawyer, Mich.

REGISTERED AND CERTIFIED SEED CORN—Clement's white cap yellow dent, fire-dried on racks, ear tested and germination guaranteed. Also Worthy seed oats. Good Seed is scarce, order yours early. Paul Clement, Britton, Michigan, Member of the Mich. Crop Improvement Association.

SEED CORN—Fire Dried. Certified Polar Yellow Dent (frost resistant) \$7.00 per bu. Duncan Yellow Dent (good for ensilage or grain crop) \$6.00 per bu. 90-day eight-rowed Yellow Flint \$5.00 per bu. All corn is shelled and graded, 56 lbs. to the bu. Bags free. Arthur W. Jewett, Jr., Mason, Mich.

FREE OFFER—Fifty Bermuda Onion Plants or Frostproof Cabbage Plants for few minutes your time. Write for proposition. Bell Plant Company, Cotulla, Texas.

CERTIFIED WOLVERINE OATS, one dollar per bushel. Improved Robust Beans, choice stock, absolutely pure, seven dollars per hundred. Bags are free. Freight prepaid on orders of twenty dollars or over in Michigan. A. B. Cook, Owosso, Mich.

STRAWBERRY PLANTS—New Mastodon, 15 other standard varieties, raspberries, grape, currant, asparagus, fruit trees. Reduced prices. Catalog free. Sawyer Nurseries, Sawyer, Mich.

HARDY ALFALFA—Clovers and all farm or garden seeds direct from growers at money-saving prices. New seed book. Free! Farmer Seed & Nursery Co., 70 First Avenue, Fairbault, Minn.

NORTHERN MONTANA Non-irrigated Registered, alfalfa, Grimm alfalfa seed, 99% pure, direct from grower, \$30 per 100. Wm. DeMessemaeker, Tampico, Mont.

60 BLOOMING GLADIOLI \$1. None alike. 12 Dahlias, \$1.25. Catalogue. A. Sherman, Chicopee Falls, Mass.

CATALOG—64 new fruit varieties. Excellent, hardy, productive. Send farmers' addresses. Get presents. Vikla Nurseries, Lonsdale, Minn.

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STRAWBERRIES—Mastodon Everbearers 1 1/2 cents each wholesale. Pamphlet on all varieties, free. E. M. Kime & Sons, Twelve Mile, Ind.

STRAWBERRY PLANTS, \$3.00, 1,000; raspberries; blackberries; grapevines. Wholesale prices. Catalogue. Cloverleaf Nursery, Three Oaks, Mich.

GENUINE MASTODON EVERBEARING—less than 2c each. Why pay more. Catalog free. E. Libke, New Buffalo, Mich.

CHOICE SEED SPELTZ and Certified Wisconsin Pedigreed Barley, \$1.50 per bushel. Harry Box, Lansing, Mich.

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TREES, plants, grapevines, shrubs, perennials. Catalog free. Landa Nursery Co., St. Joseph, Mich.

YELLOW DENT SEED CORN—Crib-dried. Guaranteed test. G. W. Needham, Saline, Mich.

CERTIFIED WOLVERINE OATS—Michigan's Leading Variety. C. D. Finkbeiner, Clinton, Mich.

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MEN, IF YOU LIKE GOOD TOBACCO let me fill your order with Kentucky's best grade natural leaf hand-picked, smoking or chewing tobacco. 5 lbs., \$1.50. 10 lbs., \$2.50. Mild, medium or strong. E. S. Doron, Star Route, Mayfield, Ky.

GUARANTEED HOMESPUN TOBACCO—Chewing or smoking, 5 lbs., \$1.25; 10 lbs., \$2.25; cigars \$2 per 50. Pipe free, pay when received. Farmers' Association, Maxon Mills, Kentucky.

HOMESPUN TOBACCO: Chewing or smoking, 4 lbs. \$1, 10 lbs. \$2. Satisfaction guaranteed. Pay when received. Pipe free for ten names tobacco users. Farmers' Union, Paducah, Kentucky.

HOMESPUN TOBACCO—Smoking or Chewing, 4 lbs. \$1; 12, \$2.25. Send no money. Pay postmaster on arrival. Pipe free for ten names of tobacco users. United Farmers of Kentucky, Paducah, Ky.

HOMESPUN TOBACCO, mellow, sweet, aged in bulk. Smoking, 15 lbs., \$1.50. Chewing, 15 lbs., \$2.25. Satisfaction guaranteed. Pay when received. Farmers' Union, Mayfield, Ky.

HOMESPUN TOBACCO: Guaranteed Chewing or Smoking, 5 pounds, \$1; 10, \$1.75; Pipe Free. Pay when received. United Farmers, Bardwell, Kentucky.

POULTRY

EGGS, CHIX, DUCKLINGS, STOCK—Wyandottes, Rocks, Reds, Cornish, Cochins, Sussex, Langshans, Brahmas, Polish, Campines, Houdans, Hamburgs, Andalusians, Spanish, Minorcas, Javas, Giants, Bantams, Turkeys, Ducks, Geese, Guinea, Arthur Jarvis, Waveland, Indiana.

PURE HOLLYWOOD WHITE LEGHORNS—Quincy winners by 139 eggs last year. Official records 239 eggs. Good sized birds, greatest layers of large eggs on earth. Only 1000 chicks per week. Reasonable prices. Strebeck's Woodside Farm, South Haven, Mich.

WHITTAKER'S MICHIGAN CERTIFIED REDS—BOTH COMBS—Trapped, Bloodtested, Michigan's Greatest Color and Egg Strain. Chicks, Eggs, Cockerels. Catalog Free. Interlakes Farm, Box 9, Lawrence, Mich.

COCKERELS—Holterman dark strain of Barred Plymouth Rocks, strong, healthy birds, beautifully marked, 6 lbs. to 7 lbs., \$4, two for \$7. Mrs. Glenn Arnold, Saranac, Mich.

BARRED PLYMOUTH ROCK hatching eggs and baby chicks from our high record egg producing strain. Circular on request. F. E. Fogle, Okemos, Mich.

HATCHING EGGS—S. C. Rhode Island Reds, trapped. Splendid color and type. Record layers. Prices reasonable. Write for circular. Koenig & Banne, Holland, Mich., R. 4.

TANRED WHITE LEGHORN COCKERELS from Michigan Certified flock direct. Balance of my cockerels at \$3.00. Each order from adv. Satisfaction guaranteed. V. Shooks, Central Lake, Mich.

S. C. BUFF LEGHORN CHICKS—Michigan State Accredited. Send for circular. J. W. Webster & Son, Bath, Mich.

THOUSANDS of eight-week-old White Leghorn Pullets, after May 15, \$1.00 each, \$90 per 100. Gunser Willow Farm, Holland, Mich.

HAWLEY'S RED COCKERELS—excellent strain. Single Comb Rhode Island Red. Prices reasonable. Wesley S. Hawley, Route 3, Ludington, Mich.

WHITE ROCKS—eggs and chicks from State Accredited and blood tested stock. Mrs. Lois Holcomb, North Adams, Mich.

RINGLET BARRED ROCK EGGS—\$8 per hundred. Blood tested and Michigan Accredited flock. Robt. Martin, Woodland, Mich.

RHODE ISLAND REDS, R. C. Large fancy cockerels at \$3 each. Burt Sisson, Imlay City, Mich.

SILVER LACED Golden and White Wyandotte Cockerels. C. W. Browning, Portland, Mich.

FOR TOULOUSE GESE and Guinea, write M. B. Noble, Saline, Mich.

PEAFOWL—Pheasants, Bantams, Pigeons, free circular. John Hass, Bettendorf, Iowa.

MAMMOTH WHITE ROCK hatching eggs for sale. Frank Donner, Suttons Bay, Mich.

TURKEYS

PURE-BRED WHITE HOLLAND TOMS \$10—Hens related, \$6.00 and \$7.50. Eggs in season. C. Galbreath, Hartford, Mich.

WHITE HOLLAND TURKEYS, toms and hens. Toulouse ganders; White Pekin ducks, drakes. Alden Whitcomb, Byron Center, Mich.

TURKEYS—All breeds, strictly pure-bred. Special prices. Eastern Ohio Poultry Farm, Beallsville, Ohio.

Bronze TURKEYS, strong, healthy breeding stock. Mrs. Ida Mills, Almont, Mich.

BOURBON REDS—\$12.50 and \$8.50. Eggs in season, 50c each. F. J. Chapman, Northville, Mich.

BABY CHICKS

BUY YOUR WHITE LEGHORN CHICKS from a breeder. Twenty years breeding Leghorns. All chicks produced by me are hatched from large white eggs not less than 24 ozs. to the dozen, and up to 28 ozs., laid by mature, selected, vigorous females not forced for production, and specially fed and handled to produce the strongest, most lively chicks. Nearly \$600

GLASS CLOTH

Brings Amazing Success with Baby Chicks



Prevents Rickets, Leg Weakness and Death Loss—Speeds Growth



FRED TURNER
Discoverer of Glass Cloth

Accurate Test Made at Ames Proves Benefits

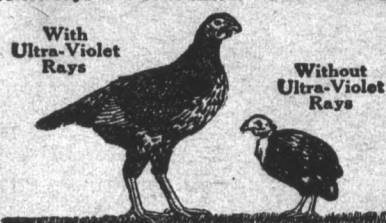
As proof of the great advantages of GLASS CLOTH over glass, note the results of this experiment made at Iowa State Agricultural College, at Ames. 25% of the chicks kept under glass died within four weeks and the remainder were a sickly, slow growing lot. A similar death loss prevailed where a competitive glass substitute was used. But under GLASS CLOTH not a chick died. On the contrary they grew at amazing speed, making a much larger gain in weight.

Test Shows Big Difference in Growth

Wherever tests have been made GLASS CLOTH has shown such superiority over glass that today it is recommended by agricultural stations, experts, scientists and practical poultry raisers in all parts of the United States.

Just look at the two chickens shown here, (taken from actual photographs) illustrating the ill effects

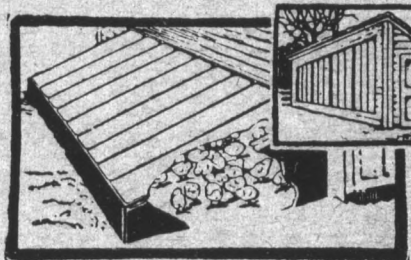
of a lack of ultra-violet rays. The big hen had plenty of sunlight from which none of the ultra-violet rays had been taken. The runt had the



same care, but no ultra-violet rays. The picture tells its own story—a story vital to every poultry raiser in the land.

Effect on Profits

Dead chicks are money lost. Sickly chicks are money lost. If you want early broilers, if you want early layers, if you want to raise practically every chick and keep them in prime good health—just give them abundant ultra-violet energy rays by using GLASS CLOTH all through the cold months of the spring. GLASS CLOTH costs but a small fraction as much as glass and gives you nature's greatest health treatment for your poultry. It removes many of the greatest troubles and worries of raising poultry. IT PAYS



Baby Chicks Thrive in This Scratch Shed

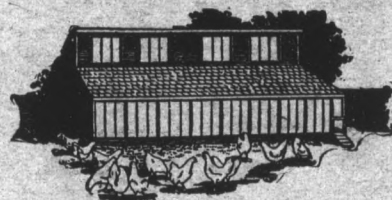
The ideal way to give your chicks plenty of ultra-violet light is to put large GLASS CLOTH windows clear across the sunny side of your brooder house. Another way is to build them a scratch shed such as shown above. Even on very cold days this shed is cozy and warm inside. The chicks scratch and exercise while they store up ultra-violet energy. It doubles the floor space. It is cheap and easy to build. All you need is a roll of GLASS CLOTH and a few scraps of lumber. Full directions are sent with each order. Take advantage of our Special Trial Offer today.

There Is Only One Glass Cloth—Avoid Imitations

Genuine, durable GLASS CLOTH is made only by Turner Brothers, under exclusive patents. No other concern can copy our process. No other has the same weather resisting formula. Quality and results are of first consideration in buying GLASS CLOTH. Therefore, beware of imitations.

Real GLASS CLOTH is a very strong fabric specially treated to make it transparent, water-proof and weatherproof. Originated in 1916 and proven by eleven years' success. So much cheaper and better than glass it has won wide popularity all over the United States and Europe.

GLASS CLOTH comes in rolls 36 inches wide and any length you order. It is easy to put up. Simply build a framework from any lumber you may have on hand and tack the GLASS CLOTH down with mauling or lath to prevent its tearing loose. It is absolutely wind-proof and water-proof. It sheds a soft, diffused light which it scatters to all parts of the enclosure. We guarantee you will like it better than any other. We recommend that you take advantage of the Special Trial Offer made in this ad. Mail the coupon today.



Brings Eggs All Winter

Big winter egg yields are easy to get. Simply put up a good area of GLASS CLOTH on the sunny side of your hen house to let in the ultra-violet rays of the sun. (Plain glass stops them.) Science has discovered it is the absence of these rays that makes hens quit laying in winter. But under GLASS CLOTH the egg glands are given new activity and produce two and three times the usual number of eggs. They lay like it was June. All you need to put up GLASS CLOTH windows or scratch shed is a roll of GLASS CLOTH and a few scraps of lumber. High winter egg prices repay its cost quickly. It is not too late to make a good profit yet this winter. Try it. It is a money maker.

Glass Cloth Pays

There are two great reasons for buying GLASS CLOTH, first, the big increase it makes in poultry profits and, second, the fact that it is so much cheaper than glass. Profit is the big reason. If GLASS CLOTH cost ten times as much as it does it would still be well worth its price. In a single season it pays for itself many times over. If you have never used GLASS CLOTH you should try it at once. Take advantage of the special price in the trial offer below. It costs you only three and a third cents a square foot. That is cheap.



Learn by actual use the bigger profits GLASS CLOTH can bring you. Send \$5.00 for a big roll 45 ft. long and 36 ins. wide, postpaid. (135 sq. ft.—enough to cover a scratch shed 9x15 ft.) You may buy as many rolls as you need at this special price. If, at the end of ten days' use, you do not find it more satisfactory than glass or any glass substitute, return it and we will refund your money. Common sense instructions, "Success With Baby Chicks," with each order. Catalog illustrating all the many uses of GLASS CLOTH free on request. Mail the coupon with remittance at once. (GLASS CLOTH is also sold by many dealers.)

Mail This COUPON

TURNER BROS., DEPT. 4217/
WELLINGTON, OHIO

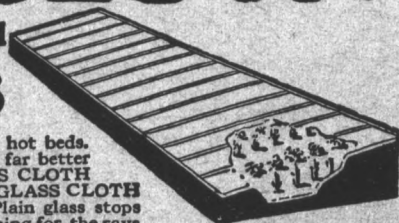
I enclose \$..... for which send me.....
rolls of GLASS CLOTH, prepaid, parcel post.
If not satisfied after ten days' use I may return
it and you will refund my money.

Name.....
Address.....
Town..... State.....
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GLASS CLOTH

Better and More Economical for HOTBEDS

GLASS CLOTH is the cheapest and best covering for hot beds. Costs but a small fraction as much as glass and gives far better results. Vegetables and flowers started under GLASS CLOTH mature weeks earlier and produce bigger yields because GLASS CLOTH admits the life-giving ultra-violet rays of the sun. (Plain glass stops them.) Under glass, plants grow tall and spindly reaching for the rays glass robs them of. Under GLASS CLOTH they get an abundance of these rays. The plants grow stronger and harder. When transplanted they do not wilt under direct sun rays the way they would if grown under glass. This prevents setbacks. Market growers and florists all over the United States now use GLASS CLOTH instead of glass. GLASS CLOTH holds the heat of the sun and throws it to all parts of the frame. Try it on your hot beds this year. Order now. Take advantage of the Special Trial Offer. Mail the coupon for a big roll today.



Dealers Order Now

If you have delayed putting in a stock of GLASS CLOTH, wire your order to your jobber or wire us, giving your jobber's name. GLASS CLOTH is selling as never before.

Two Factories Give Quick Service

The tremendous demand for GLASS CLOTH has made it necessary to add another factory. For quick service address orders to nearest office.

TURNER BROS. Dept. 4217, Wellington, Ohio