

MICHIGAN FARMER

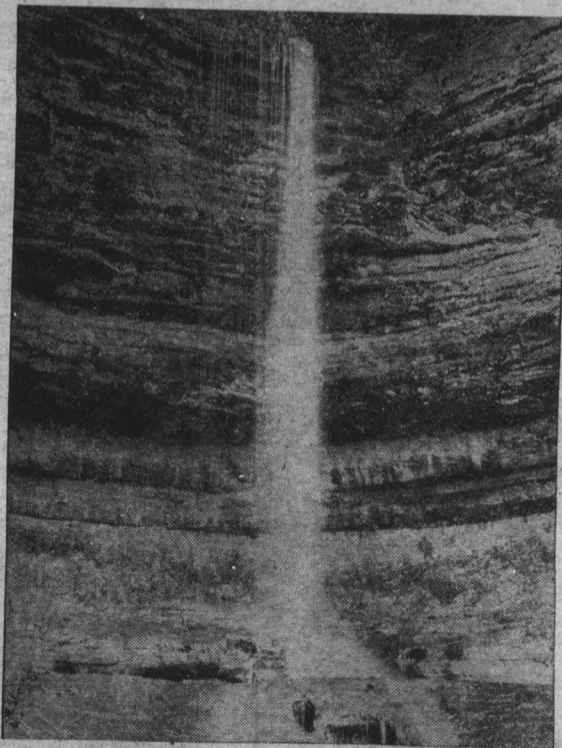
AND *LIVE STOCK*
PUBLISHED WEEKLY.

JOURNAL
ESTABLISHED 1843.

CLXX
Vol. ~~CXLXX~~ No. 3

DETROIT, MICH., SATURDAY, JANUARY 21, 1928

Whole No. 4796



THE upper picture is typical of the scenery in the orchard regions of northwestern Michigan. This shows one of the extensive orchards in Leelanau County along M-22. Michigan orchards are one of its attractions which have made our state far-famed.

The beautiful East Munising Falls is one of the many scenic attractions in Alger County in the Upper Peninsula. They sometimes are called Furnace Falls. Thousands of visitors come each year to enjoy the grace and beauty of these falls. M-25 is the state road that passes through this region.

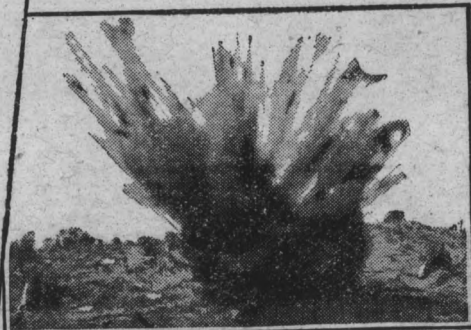
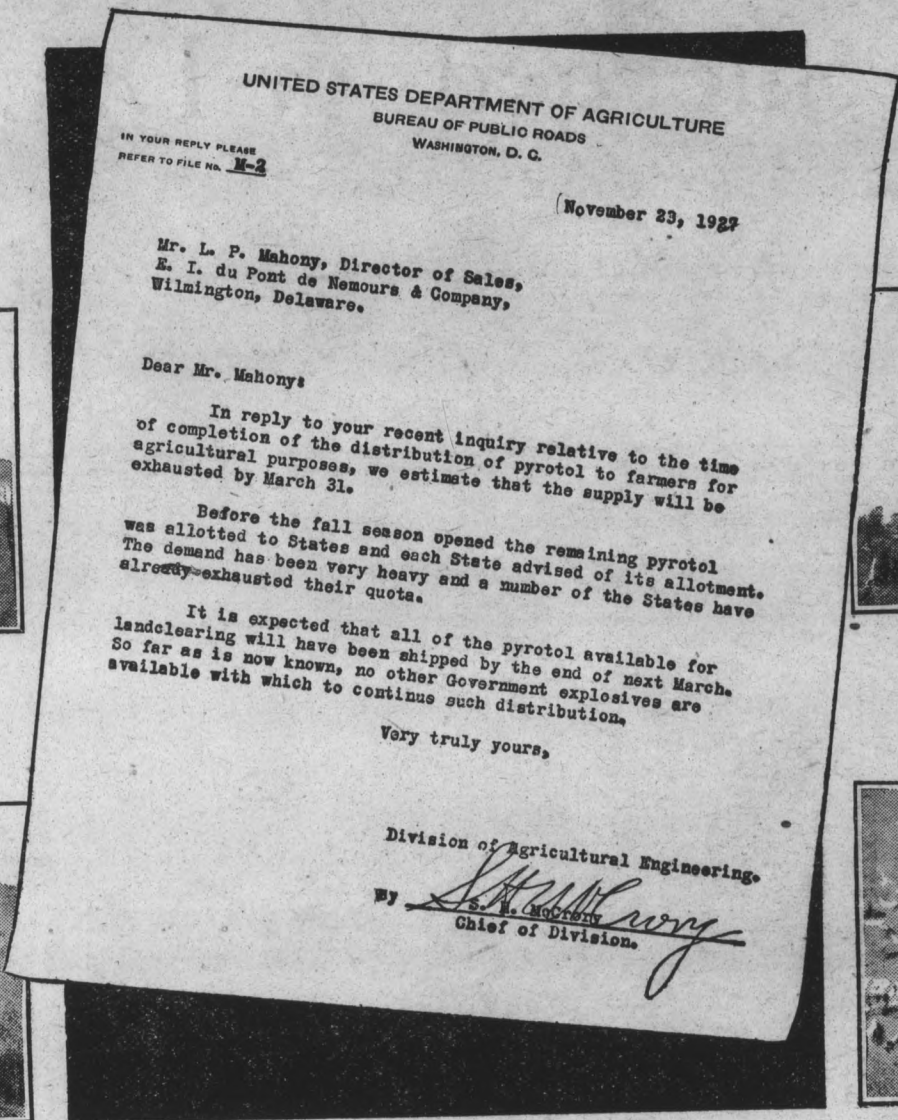
The United States Government Announces: The Supply of Pyrotol is Exhausted

Read this letter
from the
Bureau of Public Roads



Typical farmer-blasters, who use explosives as easily and safely as they use any other farm tool.

Loading the stump with Agritol. Easy and safe to handle.



Stump blasted out clean as a hound's tooth.



Stump broken up in convenient pieces for easy handling.

The du Pont Company meets this situation with

AGRITOL

The New Land-Clearing Explosive

AGRITOL, made by the company that prepared Pyrotol, takes hold where the reclaimed war explosive leaves off. Just as efficient, and just as easily and safely handled. And for good measure, certain important superiorities over Pyrotol.

Economical because it has more sticks to the pound; 172 sticks to the 50-lb. case instead of 150 sticks, a gain of 22 sticks.

Plus additional strength.

Easy and safe to handle. Much less inflammable than Pyrotol; resists moisture; and doesn't waste

when cut in half or slit for loading. Equally effective on all agricultural operations such as stumping, heaving out and cracking boulders, tree-planting and sub-soiling.

Talk to your county agricultural agent about making more money on your present farm. He'll show you how to increase your profit-making acres without buying another foot of ground. Send the coupon below for a copy of a new booklet giving information about AGRITOL, the successor to Pyrotol.



Your County Agricultural Agent
will help you make More
Money out of your farm



E. I. DU PONT DE NEMOURS & CO., INC.,
Explosives Dept., Wilmington, Del., Desk MF-1
Please send me a copy of your booklet giving information
about AGRITOL and how to use it for land clearing.
Name _____
R. F. D. _____
Town _____
State _____

DEVOTED
TO
MICHIGAN
VOLUME CXLVX

MICHIGAN FARMER

AND LIVE STOCK JOURNAL
PUBLISHED WEEKLY ESTABLISHED 1843.

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

QUALITY
RELIABILITY
SERVICE
NUMBER III

He Succeeds at Dairying

In Twelve Years Mr. York Clears Land, Provides Buildings, Breeds a Jersey Herd, and Becomes a Master Farmer

IF you follow the road to the southeast of the Soo for a distance of nine miles, you will come to the very pleasant home of Horace A. York, pictured on this page and located on the banks of the St. Mary's River in Chippewa County. Mr. York has been farming twelve years. He started with uncleared land. During the dozen years he has been operating this farm of 120 acres, eighty-five acres have been conquered from the forest.

Upon this cultivated land crops are grown to feed his herd of Jerseys, consisting of twenty-five milk cows and nineteen head of young stock. Besides supplying the winter's feed, he also grows twenty-acres of potatoes as a cash crop. Dairying and potato growing are the major lines of this farm. From them the bulk of the income is derived.

Just to the right of the home pictured is Mr. York's model dairy barn 36 by 102 feet with a "T" addition 60 by 36 feet. In this barn are concrete floors, painted walls, stanchions, manure carrier, and milk room supplied with cream separator and cooler.

Being a member of the local cow testing association, Mr. York is not only able to remove any unprofitable cows from his herd, but he is making the best use of available feeds. The cattle have twenty-five acres of permanent pasture for the summer, which is supplemented with a grain ration when needed. The winter feeds consist of legume hays, grains grown upon the farm, purchased concentrates, and minerals. Bottled cream is sold both retail and wholesale. He also finds a market for about five head of pure-bred stock each year.

Some years ago he decided, because

of the local demand for poultry and eggs, to keep Rhode Island Reds. Accredited chicks are used and the birds are fed according to the latest approved methods. Although the number of hens is not large, a nice little income is received from them. The Yorks live on the banks of the St. Mary's River where many opportunities exist for supplying tourist trade during the summer.

About 4,000 bushels of Rural Russet potatoes are produced each year from an average of twenty acres of land. This crop follows clover. The land

The grain crops are wheat, oats, and barley. No corn is produced. Wheat and oats usually follow clover, while barley succeeds oats in the usual manner. The large production of manure on the farm enables Mr. York frequently to cover these fields, which has resulted in crops yielding well above the average. For the past five years his wheat averaged thirty bushels to the acre. His oats averaged sixty bushels with two recent crops producing as high as eighty-four bushels. His barley yields are around forty-five bushels. He produces

of alfalfa. Lime has been used generally upon the farm and this practice has insured good seedings. He inoculates the alfalfa seed and sows it in May.

Naturally the soil on this farm has not had opportunity to become "run" as is the case of farms in older sections. However, the method of handling has been such as to tend to improve yields. The soil is clay loam, and is naturally drained, the farm sloping toward the St. Mary's River and a creek passes through.

The illustration on this page gives the reader an idea of the pleasant home now occupied by the York family. It is built of cobblestone and is modern in every respect. It is supplied with electricity, contains a furnace, refrigerator, power washing machine, sewage system, septic tank, and bathroom. The bathroom is located on the second floor. There are four bedrooms. The laundry work is done in the basement. The kitchen and dining room are so located that the beautiful expanse of the St. Mary's River and Sugar Island just beyond are always plainly in view.

Each year the family takes a vacation, although this does not seem quite as necessary with the Yorks as with thousands of others less favorably situated. Here they have ample opportunities for swimming, boating, and skiing. The home is provided with a piano and victrola and members of the family play. Mrs. York is treasurer of the local school board and both belong to the Grange.

During the past five years the income from this farm has been adequate, not only to meet all expenses but also to give a surplus for permanent investment. This has been (Continued on page 78)



This Fine Home of Horace A. York, Located on the Banks of the St. Mary's River, Is Well Equipped with Modern Conveniences.

is manured and plowed as early as possible. Certified seed is treated for scab, scurf, and other diseases and is cut and planted with a horse planter. The crop is usually harrowed and cultivated about eight times after planting. Harvesting is done with a potato digger. Much of the crop is sold directly from the farm during the fall and the remainder is stored in a root cellar. For the past five years the yield has been 200 bushels per acre.

certified Wolverine oats, a considerable portion of which is sold for seed. Two years ago Mr. York was in the prize money at the Chicago International Hay and Grain Show with samples of this grain.

His principle legume crop is clover which is used for hay. Constant manuring has so improved his land that the average yield over the five-year period has run better than two tons per acre. He also has five acres

A Little Farm Forestry Work

Found Waste Land Would Grow Good Posts

By I. W. Dickerson

ON our farm we had about an acre of triangular hillside cut off by a creek, which gave us a lot of trouble from washing and loss of fertility. Three small hollows came down across it and we had a continual fight to keep these from cutting into large open ditches and covering up any crop on the tiny bottom. In many places the hillsides were entirely denuded of soil and only bare clay and gravel showed. Terracing was hardly practicable because of the small size and the three sharp hollows. As the land would produce almost nothing in the way of crops, we finally decided to put it into post timber, since we had to buy all our post materials.

Because of its extreme durability we decided on planting osage orange. My father secured a few of the osage orange fruits, soaked them in water until they fell apart, then planted them in moist sand and let them stand out during the winter to crack the

seed hulls. In the spring they were planted thick in two long rows across the garden and were cultivated until the spring of their third year, when they were transplanted to the hillside, which had been plowed and put into as good condition as possible. They were set in rows four feet apart each way, and were cultivated three seasons, or until horses no longer would go between the rows because of the thorns. After that they were left alone except that they were not pastured for four or five years more.

When the trees were about seventeen years old, my father sold the farm and I did not see it often. Last summer I was in the neighborhood and made it a point to see how the grove looked. The trees had then been set about 25 years, and the present owner had just cut about a hundred posts for use on the farm.

The trees grew straight and tall, some of them being seven inches in diameter near the ground and making from three to four 7½-foot posts. The trunks of these trees make excellent telephone poles, posts for machinery sheds and barns, hay stacking outfits, or other places where extremely long life is desired; as well as the more common use for fence, gate, and corner posts. The parts too small for posts can easily be used for grape and tomato stakes, whiffletrees and singletrees, hog gambrels, and bean poles. Any parts not otherwise used make excellent stove wood.

Spaced four feet apart each way gives about 2,700 trees to the acre, and by cutting out about 250 to 300 of the largest trees each year, the owner will have practically a continuous crop, since the sprouts which come up from trees that are cut will

grow much more rapidly than the original tree.

We made a few mistakes in our first experiment. We could have saved several years by buying larger trees from a good nursery and by manuring the ground heavily for two or three years before and after the trees were planted. Then it would have been better had we put the rows eight feet apart as this would have allowed of raising row crops between the trees and of continuing cultivation for several years. When cultivation ceased, probably sweet clover should have been sown to help enrich the soil. Lastly it might have been better had we put every other one of some quick growth valuable tree, such as catalpa or black locust, which would have begun to give returns in eight or ten years after setting. In many localities osage orange and catalpa would not be the best combination, and the advice of your Agricultural Experiment Station should be secured before planting.

MICHIGAN SECTION THE CAPPER FARM PRESS



Published Weekly Established 1843 Copyright 1927
The Lawrence Publishing Co.

Editors and Proprietors
1632 Lafayette Boulevard Detroit, Michigan
Telephone Randolph 1530.

NEW YORK OFFICE, 420 Lexington Ave.
CHICAGO OFFICE, 608 South Dearborn St.
CLEVELAND OFFICE, 1011-1013 Oregon Ave., N. E.
PHILADELPHIA OFFICE, 261-263 South Third St.

ARTHUR CAPPER President
MARCO MORROW Vice-President
PAUL LAWRENCE Vice-President
F. H. NANCE Secretary

I. R. WATERBURY Associate Editors
BURT WERMUTH
FRANK A. WILKEN
ILA A. LEONARD

Dr. C. H. Lerrigo Advisory Staff
John R. Rood
Dr. Samuel Burrows
Gilbert Gusler
Frank H. Meckel

I. R. WATERBURY Business Manager

TERMS OF SUBSCRIPTION:—One Year, 52 issues, 50c. sent postpaid. Canadian subscription 50c a year extra for postage.

CHANGING ADDRESS.—It is absolutely necessary that you give the name of your Old Post Office, as well as your New Post Office, in asking for a change of address.

RATES OF ADVERTISING.
60 cents per line, agate type measurement, or \$8.40 per inch (14 agate lines per inch) per insertion. No advertisement inserted for less than \$2.00 each insertion. No objectionable advertisements inserted at any price. Entered as Second Class Matter at the Post Office at Detroit, Michigan, Under the Act of March 3, 1879.

Member Audit Bureau of Circulations.

Free Service to Subscribers

- GENERAL:—Aid in the adjustment of unsatisfactory business transactions.
- VETERINARY:—Prompt advice from expert veterinarian.
- LEGAL:—Opinions on all points, from a prominent lawyer.
- HEALTH:—Practical personal advice from an experienced doctor.
- FARM:—Answers to all kinds of farm questions, by competent specialists.
- HOME:—Aid in the solution of all kinds of home problems.

VOLUME CXLVX NUMBER THREE

DETROIT, JAN. 21, 1928

CURRENT COMMENT

Sugar Beet Contracts

THE sugar beet contracts for the season of 1928 have been published and contracting for acreage has already begun. The price is the same as for last year, the basis being seven dollars per ton at railroad stations and eight dollars per ton delivered at factories by truck or wagon.

A change, however, has been made with respect to the labor arrangement. The contract price for labor is \$22.00 per acre where the yield is eight tons per acre or less, and then seventy-five cents per ton additional for each extra ton of yield. The old contract provided for a flat rate of \$23.00 per acre for the labor.

Most farmers appears to favor this change. Old beet growers know the influence proper spacing and care have upon the crop and the difficulties in getting the laborers to do the work as they should. They feel that this new contract will prove an incentive to perform this work in a manner that will promote the highest production of beets. At some of the experiment stations the yields of carefully thinned beets have been as much as four tons above the yields of ordinarily thinned beets in the same fields.

This graduated labor contract is not new. It has been used by the farmers in the west for several years. From what can be learned, it has found favor there, along the lines suggested above. We hope it will be a forward step in the progress of the sugar beet business here in the east.

Cash Causes Worries

A PROPER balancing of the source of the farm income is a great help in leading an enjoyable life on the farm. Some observers seem to feel that the farmer should have no worry when he can raise most of his food and wear his

old clothes a large part of the time. Nevertheless, the farmer, also, has his cash worries.

It is the bills that require cold cash that causes the farmer to worry. These include taxes, interest, life insurance premiums, lodge dues, and necessary supplies to help in the manufacture of farm products. Some farmers have enough insurance premiums to pay to keep them constantly saving to pay for their protection from death, fire, cyclones, and accidents.

There are two ways of farming that frequently cause worry and failure. One is to devote so much time to raising a great assortment of products for home use that there is insufficient time to raise products to turn into cash. The other method is to raise a few cash crops and have to spend most of the returns for the living expenses of the farm. The safest way is to balance the business so that many of the needs of the farm table will be supplied from the farm, thus reduce the cost of living and yet leave plenty of time for concentration on the cash crops which are to pay the bills that demand cash.

Some people may lightly regard money, but it is almost the life blood of a farming business. It must flow in and flow out with regularity and the supply must equal the demand or it becomes a discouraging business.

Our Cover Pages

THE series of pictures appearing on our covers is to better acquaint the people of Michigan with their own state.

Those who have traveled much declare Michigan to be one of the fairest states of the Union. She does not overcome one with the ruggedness of the Rockies, but provides that natural beauty and attractiveness that appeals strongly to normal people. We, therefore, feel that Michigan folks particularly should be familiar with the attractive spots in their own state.

This becomes more important since people are more interested in places for rest and recreation. The vacation idea is spreading rapidly among all classes. Each year more farmers are arranging their work so that they can fill the gas tank and speed off to some attractive place. There is growing recognition of the fact that a change of scenery is restful and ener-

Plan to Attend Farmers' Week

USUALLY careful preparations are again being made for Farmers' Week to be held at the Michigan State College from January 30 to February 3. Practically every important agricultural organization holds a session at the College during this period. It is a time when leading farmers interested in the various types of farming, of which Michigan has probably more lines than any other state, get together to make a survey of their experiences and to lay plans for the future. Any person interested in his job of farming or of maintaining a farm home cannot afford to be any other place than East Lansing on those dates. We especially urge our readers who have never before attended to take advantage of Farmers' Week this year. Those who have enjoyed past sessions need no urging.

gizing and essential to well-rounded life.

In our own state there are plenty of opportunities for change of scenery. It abounds with beautiful lakes, rivers, wooded places, and even the more rugged spots. It is known by thousands of people as the summer playground of the central west. We believe that many outsiders know our state better for recreational purposes than do we Michiganders.

For that reason we hope to advertise Michigan to Michigan people through our front pages. We trust that they will encourage the vacation spirit and the desire to seek some of the beauty spots which abound in our own fair state, and thus add to the enjoyment of life.

The Beginning of Butter

THE dawn of the present civilization was in Asia; camels were the chief mode of transportation. A few animals were kept in herds and their milk was used for food and nourishment. Milk and other liquids were carried in skin bags on the backs of the camels for refreshment while crossing the desert wastes. The rolling motion of the camel caused cream in those bags to churn into butter. Later, as civilization advanced, some ingenious fellow conceived the idea of churning butter by putting the milk in bags on horses and racing the horses up and down.

It is interesting to imagine the stages of progress between then and now. How, in wonder, the camel driver of old would look upon our modern creameries, and astonishment at the production of our present cows would come to those who used to go out into the herds of semi-wild cows or goats and jerk out a few pints of milk!

Such a mental picture of history brings clearly to mind the wonderful progress man has made. This, with the realization that more progress has been made in the last fifty years than all the ages combined, should make each of us realize the wonderful age in which we are living. It should bring this further realization, that one should be constantly alert to take advantage of the changes which occur in order to get the most out of life.

Plan For Home Conveniences

ECONOMISTS are agreed that the most satisfying investment of dividends is in the business that produced them. In the case of the farmer, he understands that this means the purchase of efficient machinery, better live stock, and the material for improving the soil. But he is not always impressed that it is business wisdom to invest in home conveniences.

While the returns from capital used for making a more convenient home may not return dividends directly, as do some other investments, yet the installation of water, light or a bathroom, often saves the whole business for success by holding the family together and keeping their morale high. From that viewpoint and also because of the increased effi-

ciency of humans working with and affected by these conveniences, no better investment can be made upon the farm.

Although there is progress, farm homes are not too well supplied with ordinary conveniences. In 1920, seven per cent of the farm homes in the United States had lights other than kerosene lamps and ten per cent had running water. In Michigan in 1926, twenty per cent of the farms had running water, but only five per cent had electric lights. This last report is not complete, but it suggests need for expansion in the lighting of farm homes.

January, the month of resolutions, is the best months of the year to plan the home conveniences to be installed

Wins With Michigan's Seeds

WE have just received word that Lyle Cadwell, a seventeen-year-old boy, of LaPorte, is the new potato growing champion of Indiana. He was awarded this honor at the Annual State Potato Show at Purdue University where Judge F. C. Gaylor placed his potatoes as the best peck in nearly five hundred entries from all parts of the state.

Young Cadwell procured Russet Rural seed from the Michigan Potato Growers' Association. His yield was 372 bushels per acre. We want to congratulate this young farmer for the good work he has done and also for demonstrating to Indiana as well as Michigan farmers what can be done with Michigan certified potato seed.

Time

SOMEBODY says I should write about time, sometime; but I ain't never had enough time to find out what time is, just like I ain't had wealth enough to find what wealth is.

But when you got some time just look it over and find out what time is. Time is and it ain't. We've all got time and kin do something with it and still we don't know what it is.

There's one fellow what said "time is the chrysalis of eternity" and another says "time is the greatest of innovators." Even famous Mr. Webster says time is "relation with reference to concurrence and succession; the measurable aspect of duration."



Well I ain't had none of them diseases so I can't tell you anything about them, except maybe Webster is talkin' foreign languages.

This Mr. Shakespeare made a wise crack that's filled with truth when he said "I wasted time and now time doth waste me." And Mr. Martineau says "We should count time by heart throbs." Well, I guess the way folkses is goin' to the movies and readin' these pitty-pat stories, they're takin' his advice. I guess the right way to tell time ain't to look at the ladies wrist watch but to feel her pulse and you'll find time goes pretty fast. That's why lovers hold hands so much—they want ta tell time, but I don't know what they want to tell it.

Now my idea is, time is the measurin' stick of existence. None of us ever see the beginning or the end of it but each is got our little paths to walk and when we come to the end we drop off.

Some of us get careless or somethin' and slip off before we should. But what ever happens to little us, time just keeps ago'in'. Its the only thing I know of and don't know nothin' about that keeps goin' forever.

Sometimes time goes fast and sometimes it is heavy on our hands. The more we enjoy it the faster it goes. So it seems if we don't want time to go fast we shouldn't enjoy it. I know some folkses that look like they was disagreeable just on that purpose.

Sofie says its time I quit talkin' about somethin' I don't know nothin' about. Well, anyhow, here's hopin' your time was well spent readin' this time-ly stuff, especially as you'll never get that time back again. HY SYCKLE.

For Better Egg Production

The Purpose of the R. O. P.

By Otis E. Shear

THE greatest need of poultrymen today is not more hens, but better producing hens. Hens that will return a larger profit on the feed consumed.

While feeding and housing are very important factors in securing better egg production, it is fundamentally a matter of breeding. Just as we expect the heifers from good cows to be better producers than those from poor cows, so we expect that pullets produced from matings of high producing hens and male birds, whose dams were high producers, will lay more eggs than those from mediocre stock.

While much is being done to eliminate unprofitable hens by applying the now pretty generally accepted rules for culling, this method of selecting breeding stock is not sufficiently accurate for the modern breeder, who has come to realize that the only dependable way of determining a hen's record is by the use of trapnests.

For several years a number of the Michigan breeders have been using trapnests. This has given them valuable private records of their birds and has been the means of producing some valuable stock.

It was to secure uniformity in the work and a semi-official record of production through the co-operation and supervision of the Poultry Department of M. S. C. that the Michigan R. O. P. Association was organized.

This association with an initial membership of twenty was organized in the fall of 1926. The majority of these breeders were already trapnesting but a few were without previous trapnest experience.

For the benefit of our readers who may not be familiar with R. O. P.

work, a brief explanation may be of interest.

The work of the R. O. P. breeder is as follows:

First, every bird entered in R. O. P. work must be free from standard disqualifications. She must be a good individual, and typical of the breed that she represents.

Second, each bird must be banded with two non-transferable metal leg-bands. These bands bear the number by which she is known throughout the year. All bands are procured and sold through the Poultry Department of M. S. C.

Third, suitable trapnests must be provided so that efficient trapnest work can be done.

Fourth, the breeder is required to keep daily records of all eggs laid in trapnests and to weigh the same one day each week. In addition, monthly reports of such records must be made to the poultry department.

In order that these records may be semi-official, a full time inspector selected and supervised by the College is employed by the association.

It is the duty of this inspector to visit each flock at least once each month and take complete charge of the trapnests for a day. He weighs all eggs gathered that day and carefully checks the number of eggs together with their weights, with those previously recorded by the breeder. There are so many ways for doing this checking that the careful inspector can, without hesitation, vouch for all records that are accurately kept.

The inspector also has direct supervision of all breeding pens from which R. O. P. cockerels are to be produced.

(Continued on page 84)

Winter Use of Tractor

Keeping Down the Costs



ON our farm we still have several acres of woodlot from which we secure the fuel needed in our home and for threshing and other purposes. Most of the wood is from poles and branches of trees cut for the saw mill. For many years these have been made into wood size by means of the buzz saw. Until recently we had a steam engine for power, and when ready to do the job would get a gang of several men together and make a big day of it.

But after buying our tractor the program has been changed. I purchased one of the saws that attach to the front of the tractor. With this outfit three men can get along nicely, and two can get a respectable pile of

wood up in a day's time. I have under necessity cut up enough wood alone from short pieces to last the house for many days. The fine thing about this outfit is that you can move it about so readily. As the pile of poles receded the saw can be moved up and as the pile of cut wood grows the saw moves on to make high piling unnecessary.—Fred Zimmerman.

Editorial Note—An important factor in the use of tractors is keeping them busy, particularly in the winter season. We shall be pleased for others to tell us how they keep their tractors employed when not doing field work. Simply send us a letter explaining your plan and a good snapshot of your outfit, if you have one. For all letters that we can use we shall be pleased to remit.

Speed up your egg factory

YOUR hens are your egg-making machines. They turn your low-priced feed into high-priced eggs.

Keep those machines in order. A hen must produce ten times her weight in eggs every year to be really profitable.

Hens must eat liberally. Their feed is the raw material. Look to their appetites, their digestion, their health, their condition.

DR. HESS POULTRY PAN-A-CE-A *puts hens in laying trim*

It is an invigorating tonic. It gives good health and good feeling. Hens are peppy and happy—always ready to scratch for their feed. They get exercise and do not become sluggish or fat and lazy.

Pan-a-ce-a tones up and invigorates the egg organs. It makes them active, so that a right proportion of the feed goes to egg-making and not all to flesh, bones, feathers and fatness.

Add Pan-a-ce-a to the ration daily—one pound Pan-a-ce-a to 50 pounds of feed or mash. Then you'll see activity. You'll see red combs and wattles, signs of rich, red blood, which spells health and condition. And you'll hear the cheerful poultry-yard music—singing and cackling.

Please remember always, Pan-a-ce-a is not a stimulant and not a feed—but a tonic which makes for health and condition and egg laying.

Results guaranteed

If Pan-a-ce-a does not do all we claim or all you expect it to do, return the empty container to the dealer and get your money back. We will reimburse the dealer.

The price of one egg pays for all the Pan-a-ce-a a hen will need for six months. 5-pound and 12-pound packages, 25-pound pails, 100-pound drums—a right size for every flock.

Dr. Hess Instant Louse Killer

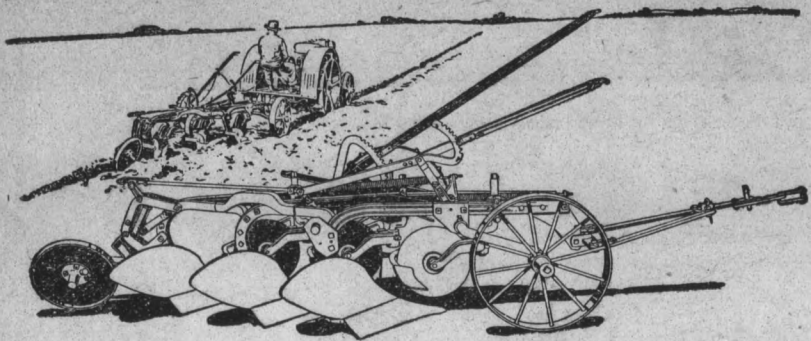
A time-tested, proved remedy for lice on poultry, stock and vegetation, including vines, plants and rose bushes.

For use on Poultry—Dust in feathers, sprinkle in nests, on roosts and on brooder floors. Dust chicks frequently. Keep in the dust bath the year around.

For Horses and Cattle—Stroke the hair the wrong way and sift in the Louse Killer.

GUARANTEED

Dr. Hess & Clark, Inc., Ashland, Ohio



Its Better Work Means Bigger Yields

YOU know that good plowing is the first step in making good seed beds. And good seed beds produce the biggest yields. Its better work—thorough pulverizing, good covering, better scouring—is responsible for the widespread popularity of the

John Deere No. 5-A Tractor Plow

Its genuine John Deere bottoms—famous for good work, scouring and long wear—will do your job of plowing the way you want it done.

The same good-work advantages that have made John Deere horse-drawn plows so popular are built into the No. 5-A.

You will like the way the new heavy-duty power lift operates. It

is simple, positive and strong—lasts longer and gives better service.

The exceptional strength of the John Deere No. 5-A adapts it to plowing in the toughest soils. The rigidly-braced beams are guaranteed not to bend or break.

John Deere quality construction in every part assures a long life of good work. It can be had in two- or three-bottom size.

See the John Deere No. 5-A at your John Deere dealer's store. Write to us for free booklet describing it. Address John Deere, Moline, Ill., and ask for booklet KA-722

JOHN DEERE

THE TRADE MARK OF QUALITY MADE FAMOUS BY GOOD IMPLEMENTS

Mention The Michigan Farmer When Writing to Advertisers



He's Thru Farming unless—



Always look for the **Red Brand** (top wire)



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

C. M. Ross, Mt. Enterprise, Texas, says: "A farm that is not properly fenced cannot be sold to a man who is able to pay for it or to a man who can make it pay for itself." And G. S. Russell, Milford, Mich., makes another statement, equally true: "Many renters are insisting on a well fenced farm or they will stop farming." Take care of your renter if you want your renter to take care of you.

RED BRAND FENCE

"Galvannealed"—Copper Bearing

will help you do it. Without good fence J. R. Rasberry, Cushing, Texas, says he could not have raised \$50 worth of pork where he raised \$500 worth with good fence. And without good fence how could J. E. Rush, Bonilla, S. D., have topped the Sioux City market with fat lambs that were never fed a mouthful of grain except what was left in the fields after threshing.

No other fence is like RED BRAND. We put copper in the steel, like old time fence. This adds many more years of wear. Our patented "Galvannealing" process welds on an extra heavy coating of zinc. This keeps rust out far longer than plain galvanizing. Stiff, picket-like stays, wavy strands and Square Deal can't-slip knots keep RED BRAND hog-tight and bull-proof.

That kind of fence may make it possible for you to duplicate Arthur Tauberg's, Wallace, S. D., experience when he topped the hog market by 10 cents on 87 head that netted him \$2300 out of a sweet clover pasture planted with barley and a 40 acre cornfield laid flat by wind.

KEYSTONE STEEL & WIRE CO.
4917 Industrial Street Peoria, Illinois

THE BUSINESS OUTLOOK

AFTER holding on an unusually even keel for nearly three years, business activity dropped rather sharply in the last quarter of 1927. Industrial operations in the closing months were at the lowest level since the sharp but brief business recession in the summer of 1924. Steel, pig iron, and automobile production, and freight car loadings were the business barometers which dropped most sharply.

Employment in manufacturing industries finished the year about 4 per cent under the close of 1926 and pay roll totals were about 8 per cent lower. Both were the smallest since 1924.

Signs of a return to higher activity are discernible. Automobile factories are stepping up again in response to larger orders brought by new models and reduced prices. Increasing operations in the Ford factory are a large element in the situation. Some increase in steel mill operations has occurred to supply the expanding orders from automobile manufacturers, railway equipment companies and the building industry. Unfilled orders on the books of the United States Steel Corporation increased 518,000 tons in December, the largest gain for any month in the last two years. Unfilled orders on December 31, 1927, were the largest since March, 1926.

Most business observers believe that the early part of 1928 will see a decided revival from the slowness of the end of the year, and that the year as a whole will compare favorably with 1927. Credit supplies appear ample for financing business expansion, in spite of moderate gold exports, and money rates remain low.

News of the Week

Thomas Hardy, 87 years old, the noted English author died at Dorchester, England, January 11th.

The Maharanee of Indore is on a hunger strike because her husband has announced that he will marry Nancy A. Miller, an American girl. He will have difficulty in getting this latter marriage ratified in India.

Yankee fliers with the U. S. Marines in Nicaragua killed nine rebels in an airplane attack near Managua.

Because the air mail planes flew so low that they scared the chickens on the Cackle Corner Poultry Farms at Garrettsville, Ohio, the post-master-general has been asked to have them fly higher over that town.

A total of thirty-two bodies have been taken off the S-4, the sunken submarine, by divers.

In an announcement at the New York auto show, Henry Ford said that his company has orders of 727,000 new Fords and that soon they would be making 1,000 a day.

To aid in the search of a real cure for colds, \$195,000 has been awarded to the John Hopkins University.

A special roadway has been constructed in Havana for President Coolidge upon his visit there January 15th to open the Pan-American conference. He will be the first American to traverse that road.

The congestion from auto traffic has become so great in the Chicago loop district that no curb parking will be allowed there. Merchants claim that it has caused a 15% drop in sales.

A tidal wave swept into London, England, January 7th, which flooded most of the east side homes. The Parliament terrace was swept by the waters.

Major-General Juene, commander of the "devil dogs" during the war, will have charge of the U. S. troops in Nicaragua.

The state conservation commission has decided not to take advantage of the supreme court ruling giving the state the lake front property made by receding lakes.

Fifteen hundred of the two thousand prohibition agents have "flunked" in their civil service examinations and will likely lose their jobs.

A post card mailed 22 years ago in Sabine, Ohio, to Harry Adams at Wilmington, Ohio, reached him at Oklahoma City recently.

Record Garden Yields



Make Big and Sure Profits

The demand for health-giving vegetables is growing; wayside markets open new opportunities for quick, profitable sales. Use the **Isbell Seed Annual** for your guide. It tells you how and when to plant. It quotes you direct-from-growers prices on **MICHIGAN GROWN**

Isbell's Seeds

"As They Grow Their Fame Grows"

TRADE MARK

Northern-grown seeds are the best, hardiest, earliest maturing seeds—safe anywhere, 49 years growing seeds in Michigan—ceaseless experimenting, careful selection, and perfect cleaning have made more than 200,000 satisfied Isbell customers. You buy direct from the grower and save money. Satisfaction guaranteed.

Write Today!

Get the 1928 Isbell Seed Book. It's a valuable guide for growing great crops. Gives complete cultural directions. Post card brings it, free.

S. M. ISBELL & CO., Seed Growers
113 Mechanic St. JACKSON, MICH.



Invented by John Bean in 1884

The BEAN Clog-no, a big-capacity potato sprayer

BEAN POTATO SPRAYERS

Increase Profits

Increase potato profits by high-pressure spraying with a BEAN Clog-no Potato Sprayer, a big-capacity outfit for large acreage or combination of potatoes and orchard—10 gals. and better per minute at 300 lbs. pressure. Special non-clogging features. BEAN Giant Triplex Pump without stuffing boxes or stuffing-box troubles. 4 h.p. BEAN Engine, Threadless and Troubleless Ball Valves, Dependable Pressure Regulator, Rotary Agitator, Adjustable Boom, many other features.

BEAN Traction Sprayer No. 6000

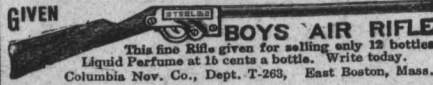
A perfectly balanced low-slung traction sprayer of big capacity. Maintains even high pressure.

BEAN "All Purpose"

A truck sprayer that is quickly adapted to orchard work as well. 6 to 7 gals. a minute at high pressure. 3 h.p. engine.



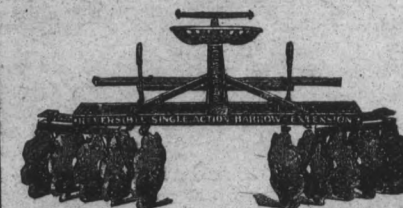
Write for Complete Potato Sprayer Catalog
BEAN SPRAY PUMP CO.
31 Hosmer Street Lansing, Mich. 251 W. Julian Street San Jose, Calif.



GIVEN **BOYS AIR RIFLE**
This fine Rifle given for selling only 12 bottles Liquid Perfume at 10 cents a bottle. Write today. Columbia Nov. Co., Dept. T-263, East Boston, Mass.

"Used Them For 10 Years, Best For Work and Wear" Says D. P. Roche

Mr. D. P. Roche, Empire, Mich., knows disk harrows. Read what he says: "Your letter and catalog received. We already have two Double Disk Clark 'Cutaway' Harrows and one Single Clark 'Cutaway'. I want a disk to work with a light team on ground that is somewhat rolling and I think I will take the Single Action Harrow Extension. Ship us to Traverso City, Mich., one Disk Harrow as described on page 11. We are buying no experiment as we have used them for 10 years and can truthfully say they have anything but we ever tried for wear and tillage. The draft is perfect."



Clark Single Action Harrow fitted with cutout or solid disks of cutlery steel formed sharp for better work and longer wear. 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 prices and book, "The Soil and Its Tillage."

Name

Address

Service Department

RENTING FARM

If A rents his farm to B, crop rent, should A get any share of pasture or proceeds from cows or stock?—Subscriber.

If a farm is rented on the crop share basis only, each party would do with his share of the crops as he sees fit. If the entire farm was rented, of course, pasture would be included and the tenant would be entitled to his share.

A better method of renting a farm is to include live stock and divide the income from the cash crops and returns from the live stock.

PEDDLER'S LICENSE NECESSARY?

I am supplying customers with eggs, and not being able to supply them with my own eggs, I would like to know if I have to secure peddler's license in order to buy eggs from neighbor to finish filling my orders. If I do, what are the charges for the license?—Subscriber.

We do not find any provision requiring a license for such business. For information concerning license to deal in food stuffs, write the Dairy and Food Commissioner, Lansing.

CO-OPERATIVE FERTILIZER BUYING

We are trying to organize a fertilizer association but do not know just how to go about it. We want to organize under the Michigan laws. If the fertilizer is ordered in ton lots or more we get it at dealer's price. Should any papers be drawn up? If so, how? What officers should we have? There will be fifteen or twenty men.—A. R.

We would suggest employment of a local attorney, and organization of a non-profit stock corporation.

POWDER-POST BEETLES

The joists and beams in my cellar are being destroyed. Apparently they are being eaten by some very tiny insects. The joists in particular are covered with pin holes from which a powdery dust comes until large pieces can be broken off with the hand. I will have to replace some joists already and if I cannot stop this from spreading my house will be destroyed. Please advise.—L. H.

Your excellent description of the damage leaves no doubt in my mind that the difficulty is due to tiny beetles called powder-post beetles. Still, there is the barest possibility that white ants are the culprits and in such a case the outlook would be even more discouraging.

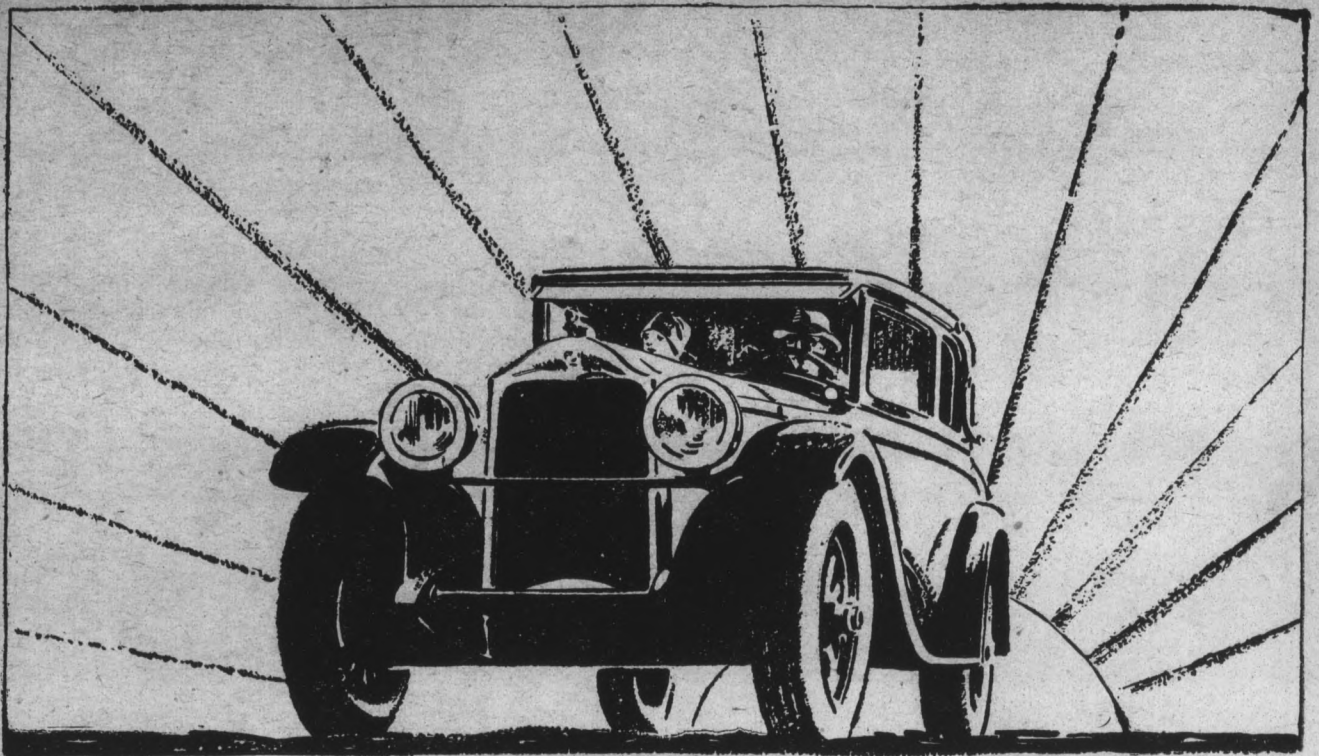
If the insects are the powder-post beetles, then the thing to do is to soak as much kerosene as possible into the wood. The fine powder dust will act much like blotting paper and conduct the kerosene into the tunnels where the beetles are at work. It will be something of a comfort to know that powder-post beetles work in the sap wood and do not attack the heart wood. Certain classes of timber are more likely to be attacked than others. We have seen maples, oak, and basswood severely attacked in Michigan more often than other woods, although the sap wood of other trees is not immune.—R. H. Pettit.

EMPLOYERS' LIABILITY

Is a corporation liable for its employee in an assault and battery case in Michigan? What is meant by a verdict of \$25.00 above costs and what are costs composed of?—F. A. P.

Corporations are liable for their torts committed by their employees in course of duty, and therefore would be liable in assault and battery. The costs recovered in such a case are measured by the amount of the damage and cannot exceed it.

Dogs may be vaccinated to prevent rabies.



The 2 Millionth Buick joins its brothers on the road

A few weeks ago, Buick manufactured the two millionth Buick and thereby established the most spectacular production record in fine car history.

Attainment of the two million mark is a noteworthy accomplishment in any motor car field; but it assumes epic proportions when considered in terms of a car of Buick caliber.

Give thought, for a moment, to the deeper, more significant phases of this Buick achievement:

The world's purchase of two million Buicks represents a world tribute to Buick quality of almost three billion dollars.

Motorists purchased the first million in twenty years, and the second million in four years—proof of Buick's steadily increasing popularity.

The two million Buicks have proved Buick dependability by traveling scores of billions of miles—

four million times the distance around the world.

And, after twenty-four years, approximately 1,600,000 of the two million Buicks are still serving their owners!

These facts constitute a record of popularity, reliability and stamina not even remotely approached by any other car—a record that becomes still more impressive with each new Buick that goes forth upon the highways of the world.

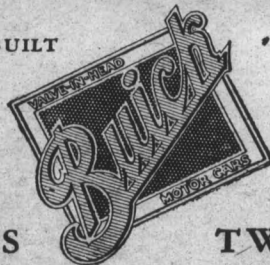
Supreme value—overwhelming demand—then still greater value and still greater demand—have formed the wonder-working formula of Buick progress. And this progress still continues.

The year just closed has been Buick's biggest year. More people have bought Buicks during this period than during any other twelve months in Buick history.

BUICK MOTOR CO., FLINT, MICH. • Division of General Motors Corp. • Canadian Factories: MCLAUGHLIN-BUICK, Oshawa, Ont.

WHEN BETTER AUTOMOBILES ARE BUILT

BUICK WILL BUILD THEM



TWO MILLION BUICKS

TWO MILLION BUICKS

TIMOTHY AND CLOVER \$4.00 PER BU

BIG BARGAIN—Sample Free—SAVE MONEY
Red Clover and Timothy mixed—Standard Grasses, unsurpassed for hay or pasture. Contains 10 to 16 per cent clover—ready to sow. Thoroughly re-cleaned, guaranteed and sold subject to your test and approval. A real Bargain. Samples Free of Clover, Alfalfa, Sweet Clover, Timothy, all Field Seeds and special low prices with catalog. American Field Seed Co., Dept. 531, Chicago, Ill.

STRAWBERRIES \$2.95 per 1000 and up. Full line of Berry Plants, Grape Vines, Fruit Trees, Ornamental Shrubs, and Bulbs. Large stocks; low prices. 38 Years experience. Write at once for free illustrated catalog giving big discounts for early orders. J. N. ROKELY & SON, Box 6, Bridgman, Michigan.

Try a Michigan Farmer Liner

Kerosene Light 10 DAYS TRIAL FREE
BEATS GAS OR ELECTRICITY



Make your home bright and cheerful, saving one-half on oil. Government and leading University tests prove this wonderful new Aladdin nearly five times as efficient as best round wick open-flame lamps. Burns 50 hours on one gallon common kerosene (coal oil.) No odor, smoke or noise, no pumping up, easy to operate, won't explode. WON GOLD MEDAL. GUARANTEED. Prove for yourself, without risk, by

Ten Nights Free Trial

that Aladdin has no equal as a white light. If not satisfied, return at our expense. \$1000 given anyone showing us an oil lamp equal in every way to this NEW MODEL ALADDIN.

GET YOURS FREE We want one user in each locality to whom customers can be referred. In that way you may get your own without cost. Be the fortunate one to write first for 10 DAY FREE TRIAL OFFER and learn how to get one FREE.

MANTLE LAMP CO., 330 Aladdin Bldg., Chicago

LARGEST KEROSENE (coal oil) MANTLE LAMP HOUSE IN THE WORLD. Make big money spare or full time. Our easy selling plan makes experience unnecessary. We start you without money. Sample sent for 10 days trial and GIVEN FREE when you become a distributor.

Agents Wanted

CLOVER

Michigan-Grown

Order early. Protect yourself, insure your yield, by buying seed of proven hardiness. Beware of inferior clover seed not adapted to your soil and climate. Use only Isbell's Bell Brand Clover—red or alike—all Michigan-grown, pure, true to strain, hardy and big-yielding—record producers for years. **FREE Samples** of any field seeds to show quality sent on request with Isbell's 1928 Seed Annual. Big savings on highest quality direct-from-grower seeds. Write today. S. M. ISBELL & CO., Seed Growers 114 Mechanic St. [18] Jackson, Mich.

GIVEN TO YOU

Choose ANY \$20 Musical Instrument

You will give you free a \$20.00 quality Violin, Tenor Banjo, Hawaiian Guitar, Banjo, Banjo-Guitar, Cornet, Guitar, Mandolin or Banjo-Mandolin. Learn to play by note. We teach men, women, boys and girls by mail. Amazing new, simplified method. A few cents a day pays for Lessons. Instrument and first lesson sent on FREE TRIAL. Over 600,000 successful pupils. Write today. No obligation. CHICAGO CORRESPONDENCE SCHOOL OF MUSIC, INC. 1432 No. Halsted St. Dept. 531 Chicago, Ill.

Larger Yields Per Acre Mean MORE MONEY for YOU! Fertilizer Makes Earlier—Bigger Crops

Your cost per acre for land, taxes, seed and even labor is about the same for growing a twenty bushel crop as for forty, but the cost of growing per bushel is less for the big crop and as a result you make extra profit.

In Darling's Animal Base Fertilizers part of the nitrogen is available at once and feeds the plant during early growth. The remainder of the nitrogen is supplied gradually and feeds the plant throughout the season. This gives the plant a quick start and

steady, sturdy growth

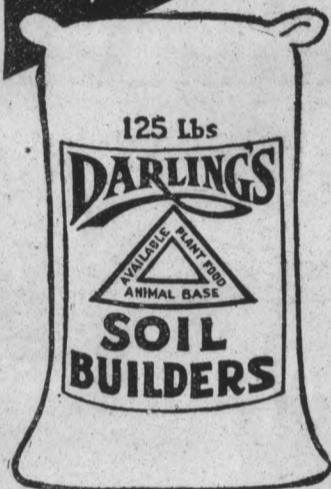


is made by special process. Superphosphate made this way is better because it contains less free acid and less moisture.

This gives our Fertilizer mixtures better handling qualities and they do not clog in the drill. Our new million dollar plant is the only one in the middle west using this special process.

Write today for literature on Darling's Fertilizer and information about our agency proposition

DARLING & COMPANY
DEPT. 20
4201 S. Ashland Ave., Chicago



TRY a Michigan Farmer Liner to sell Your Poultry, Real Estate, Seeds and Nursery Stock and Miscellaneous Articles. See Page 91 for Rates.

News and Views

From INGLESIDE FARM—By Stanley Powell

NOW that we are able to look at it a little more calmly, we have been making a rough analysis of our tax receipt. The first thing that impresses us is that the total is four per cent higher than a year ago. This seems to be the trend of the times. We cannot remember a recent year when our tax totals didn't considerably exceed those of the previous season. It is this devastating tide which must be stemmed and turned backward before we can hope for proper profit in agriculture.

The next thing which catches our eye is that the items for road repair, county roads and Covert roads at large comprise 41.1 per cent of the total tax. Besides this, Ingleside falls within two special assessment districts for Covert highways. When you add to these various road taxes our auto and truck licenses, it would appear that we should be entitled to drive hither and thither at will with a clear conscience. However, the fly in the ointment is that we shall undoubtedly be so busy trying to get ready to meet another dose of taxes that our pleasure trips will be few and far between.

Our school and one mill tax amounted to 24.4 per cent of the total. The state tax ran 14.7 per cent, while the county and township levies comprised the balance.

All in all, we are inclined to believe that the much-heralded "tax reduction" has been for the big interests and not for the farmers. In other words, those most able to pay have been materially relieved, but farmers whose burdens have been so excessive and who are almost wholly unable to pass on any portion of their taxes have been saddled with an ever increasing tax load.

Our community farm bureau organization is holding an oyster supper to be followed by a speaking program and I have been asked to speak on the topic "The Farmer and His Tax Burden." I wish that you could all be there so that we could go into the situation more thoroughly and try to reach some agreement as to what we should do about it. This much is certain. First, we must know the full facts and then, in the second place, we must be so organized as to defend and effectively champion our proposed program of tax reform.

Friend Wife—The Partner

Of course in all this—as in everything else that amounts to much in rural life—we men must have the intelligent and active co-operation of the rural women. Their vote counts as much as ours and history shows that when they whole-heartedly launch a reform, victory is inevitable.

A few evenings ago we had a little committee meeting here at Ingleside. The matters which we were to discuss were of direct and immediate concern only to the men and in fact they were the only ones specifically invited. Before any of the folks arrived, wife and I regretted that we had neglected to ask the wives to come too. However, we didn't need to worry about it, as each man who came had his wife along! To me that is one of the fine things about rural life—the intimate and well-rounded co-operation and partnership between husband and wife. That is certainly one of the primary factors in making the farm home such a noteworthy institution.

What unusual weather we have had so far this month! January came in with a blizzard, an abundance of snow and cold weather for about four or five days. Then we had a "January thaw" lasting a week or more. During the bitterly cold days the first of the year our hired man busied himself cleaning up the "big barn." With a broom, he swept down the accumulation of dust and cobwebs between the joists and around the walls. This should have been done sooner, but on a farm, as I have previously remarked, we have to choose each day and each hour the tasks which seem the most urgent. Cleaning the barn improves our dispositions, raises our "morale," lessens the fire risk and makes a better impression upon visitors and prospective purchasers of live stock.

A Little Speculation

We aren't in the habit of speculating much here at Ingleside, but a few days ago a farmer offered us his flock of sheep at a figure such that we felt they were well worth the money and we took them. When we got them home we spent several hours tagging them and trimming their hoofs. Now I have trimmed many a sheep's hoofs, but I never tackled any that needed

it quite as badly as that bunch. I saved some of the longest hoofs as relics and took one to the house and measured it. Wife is my witness that that piece of toenail measured over four inches in length! Imagine a sheep running around with eight of those impediments underneath her!

When we have something to sell, it is our rule to try to make it as attractive as possible. We believe that not only the stock itself should be put in the best possible condition, but the place in which it is displayed should be made neat and orderly. Those preliminary preparations are half the battle in live stock salesmanship.

RAISING EVERBEARING STRAWBERRIES FOR MARKET

I HAVE been raising everbearing strawberries for market for the last eight years, with varying success. Like many other things, you may raise a bumper crop and think you know all there is to know, only to find you know very little. I find it hard to get any information about raising them. I have written experiment stations with little success. In the eight years I have never had a failure. What I mean is to have the berries fail to pay for the labor and good pay for the use of the land.

As with most anything we raise, the most important thing is the soil. I would choose well-drained sandy loam. I have had the best success with such land where it was only two to three feet to water. A place protected from the prevailing winds is preferable. Everbearers can be raised on heavier soil but it takes more time to prepare it.

In preparing the soil I usually put a good coat of barnyard manure on a piece of sod, preferably clover sod, plant some cultivated crop if the crop is harvested early. Keep it free from sod and weeds until late in the fall, then plow. Spring plowing will do but I find I can hold the moisture better by fall plowing.

On heavy soil, take a piece well cultivated, manure and plow down, sow to buckwheat or peas and oats. When in blossom plow down. Work up the next spring and set. It will help balance your barnyard fertilizer to apply 250 pounds per acre acid phosphate in the spring before preparing soil. The soil should be thoroughly worked with dics and harrow and set as soon as danger of hard freezing is over.

I set the plants in rows forty-two inches apart and sixteen inches apart in the row, and start cultivation at once. On the hoe and cultivator to quite an extent depends your success. The first should be deep cultivation, then when the roots begin to spread, only shallow cultivation should be used. If you give them a chance you will find these fine roots running clear across the row. Keep up the cultivation until they begin to bear in earnest. Each time after a rain they should be cultivated as soon as the soil can be worked, to break up the crust and keep a dust mulch on top.

Select only healthy plants with root systems. If possible set them the same day they are dug. When this is done it is not necessary to prune the roots but prune all the leaves off but two or three next to the crown. We use a spade to set with. We do not mulch our everbearers as we are in Cheboygan County where we have plenty of snow.

If I desire to keep the patch more than the first season, the next spring I take a potato hook and dig the old plants out and part of the new ones leaving a row of young plants. I do this with Progressives although some varieties bear best when the plants are a year old.—Edward Ream.

Ohio Ohio Ohio Ohio Ohio Ohio Ohio Ohio Ohio Ohio

FAMOUS Ohio SPREADERS

Seventy-five loads pay for this spreader

This Spreader will pay for itself before it hauls seventy-five loads. Load the manure direct from your stables into this machine, and spread it at once on the fields.

This plan will save most of the valuable elements which would leach away and burn up in your manure pile. It will save enough of them actually to pay for the spreader in an average season—and beside that, you will save about one-third of your spreading labor.

GRAIN DRILLS HAY MACHINERY PULVERIZERS

The Ohio Cultivator Company
Bellevue, Ohio

Ohio Ohio Ohio Ohio Ohio Ohio Ohio Ohio Ohio Ohio

Readers' Opinions

THE NEED OF THE TRESPASS LAW

I AM writing to you about what I think of the trespass law. This fall I was sawing wood in my woodlot on my farm. I posted notices, "No Trespassing," "No Hunting," and still I was in no man's land. One bullet dug right into the tree I was sawing. I looked and saw two sharpshooters shooting at a doe, over thirty shots, and they never dropped it in my land. This doe was in my garden and through the farm all during the summer. I stood the damage it did just to see it.

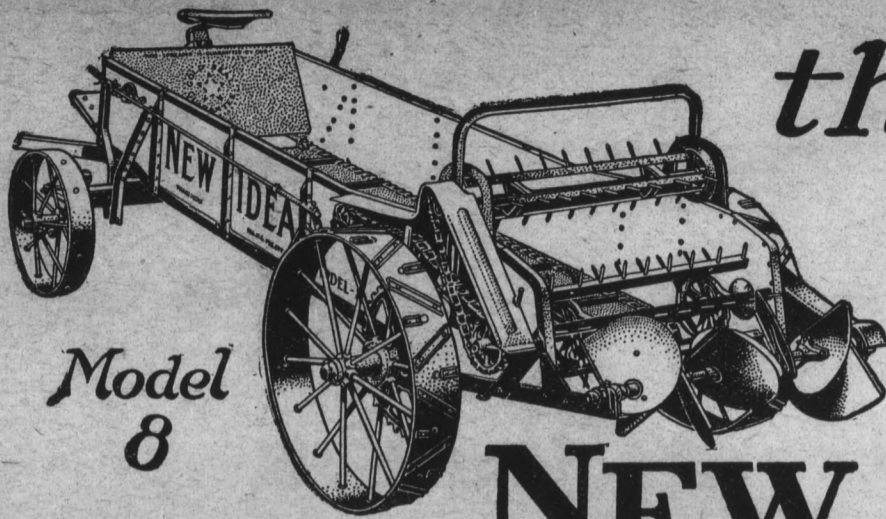
This trespassing business should stop. What can I do! take a gun and start war, too? If they want hunting why not hunt in the state or federal land which is public domain? But the land I buy and pay a big price for is my homestead to live and work for me and my children and my live stock; it is not public domain. It is against the human law to trespass any time on private property, especially if armed. It is time for the representatives at Lansing to consider the words "public domain." If they want game, fence it in public land and leave the farmer alone. He has plenty of work taking care of domestic animals.—Angelo Gennara.

THE MINK AND SKUNK

HAVING read so much in Michigan Farmer and in various other farm papers about the skunk and mink, I will tell what I have observed about these little animals. First, the mink is a predatory animal that cannot be equaled in the harm which he does, unless it be by the fox and weasel. True, he may eat some harmful rodents during the summer and probably does destroy many mice, rats, etc., but so does the snake and every man's hand is against the snake and his tribe. The skunk also eats rodents and bugs, worms, etc. The difference between the skunk and mink is this: the skunk sleeps most of the time during the winter. Just comes out in warm weather or during a thaw. The mink is always alert to kill and destroy.

During the terrible sleet and ice storm of 1922, many quail and other birds were reduced to a state of starvation and a number of quail made their home in an old barn on the farm where we were living. We fed them until March and they became quite tame. A blizzard with a great deal of snow blew the trap door of the barn shut and the tiny birds were unable to get into the barn. As is the habit of quail they formed in a circle with heads out for protection and settled down to face the night of storm and snow. They were somewhat protected by being in a fence corner, but despite this they were completely covered. The storm abated about nine o'clock next morning and around noon I took a pail of grain and started out to find my pets. I was not their first caller however. Just six of the original flock of 21 were alive. The rest were dead—killed by a mink. The mangled bodies showed that he had eaten his fill and killed the remainder just for the lust of killing. His tracks gave him away. A tile drain near by later proved his downfall and his pelt was some consolation for the loss of my beautiful little pets.

Surely quail are more valuable to the farmer than the mink. The rabbit may be a pest to the farmer but he is good food for man, let the mink alone and he will destroy the rabbit and the rest of our small game. He has two faithful helpers, the weasel and the fox.—Mrs. Fern Berry.



Model 8

there is only ONE NEW IDEA



BUY wisely! Do not place your order for any make of spreader until you have first compared it with the latest model NEW IDEA. You will then be equipped to judge of spreader merit according to a definite standard. For there is still only one genuine NEW IDEA. Not because it is the oldest and best known—the original widespread machine; not because it is the finished result of nearly thirty continuous years of progressive development; but because the NEW IDEA actually is

Olivet, Mich.
The New Idea Spreader Co.
I never hesitate to recommend your spreader to my friends and I think they are the best money can buy. I have used one for ten consecutive years and just this last winter traded it toward another "NEW IDEA" which I find satisfactory in every way. I think during the ten years I used your spreader I had less than two dollars in repairs.
Yours very truly, F. B. Oxby.

The Leader in Every Spreader Improvement

The Model 8 NEW IDEA stands supreme—whether judged by quantity and character of performance, ease of operation and control, or durability of service. Never excelled for light draft—shortest turning radius—easy loading over sides that are not only low (less than 40 inches in height) but absolutely unobstructed. 16 inch clearance underneath.

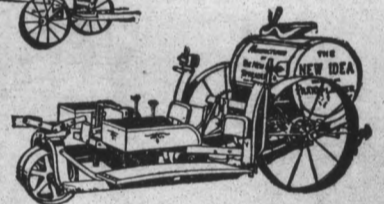
Riveted frame of rail steel—three times stronger than the steel generally used. Body of highest grade, absolutely clear, yellow pine, riveted (not bolted) to frame—cannot warp, crack or open up. Semi-steel instead of ordinary castings. Tempered steel chains instead of malleable. Wide tires. Extra size, self-aligning, enclosed roller bearings. Cylinder teeth riveted to angle steel beater bars. Distributor blades of rust-and-acid-resisting steel. No one has ever yet worn out a Model 8!



New Idea Husker-Shredder

Farm equipment of the highest quality

New Idea Transplanter



The New Idea Spreader Co.

Coldwater, Ohio, U. S. A.

FACTORY BRANCH: Jackson, Mich.
ADDITIONAL STOCKS
at Petoskey, Mich. and London, Ont.



Stop in and see the dealer who displays this sign of New Idea Service. It is being shown by over 4000 dealers located in all parts of the country.

THE NEW IDEA SPREADER COMPANY
Dept. 35 Coldwater, Ohio
You may send me information on
 The New Idea Spreader
 The New Idea Transplanter
 The New Idea Husker-Shredder
Name _____
Address _____

TRUCKS · WAGONS · WHEELS



Steel Wheels—to fit any running gear. Catalog tells how to save money on Steel or Wood Wheels, Farm Trucks, Wagons and Trailers. Send for catalog today.
ELECTRIC WHEEL CO., 35 ELM STREET, QUINCY, ILLINOIS



HULLED SWEET CLOVER \$4.50 PER BU.

Samples Sent Free—Wonderful Bargain, Scarified & cleaned White Blossom Sweet Clover. Makes wonderful pasture. Unsurpassed for fertilizing. Excellent for hay. Write for free samples and special low prices on best Sweet Clover, Red Clover, Alfalfa, Timothy and other Field Seeds. Our prices lowest yet. 62-page catalog Free describing all Field Seeds. Investigate Sweet Clover now. American Field Seed Co., Dept. 1231, Chicago, Ill.

KitseIman Fence

Prices slashed!

Startling Improvement in Galvanizing

FREE CATALOG
Fence
Steel Posts
Gates
Barb Wire
Paint
Roofing



All KitseIman Fence now SUPER-Galvanized with 99 94/100 per cent pure zinc, the same high quality zinc as used on TELEPHONE Wire. Wonderful improvement. Adds years to life of fence. No extra cost to you. Our Free Catalog gives complete facts.

Lower Prices—Higher Quality

Bigger, better values than ever in Farm, Poultry and Lawn Fence, Steel Posts, Gates, Barbed Wire, Paint, Asphalt and Metal Roofing. Guaranteed highest quality products. Prices cut to the bone. Savings greater than ever.

"Y" Type Steel Posts with Jiffy Fasteners. No stapling—no wiring—no post holes to dig. Drive like a stake, winter or summer. Save time, labor, expense. Cost less than wood—last longer.

Be sure to get our Factory Prices—lowest in years—before you buy. Don't delay! Write today for our new FREE Catalog.

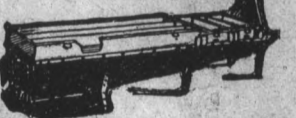
Dept. 278
KITSELMAN BROTHERS
Muncie, Indiana

12-to-24 Hour Service

Factory to You — We Pay Freight

MAPLE SYRUP MAKERS

Mail coupon for
Booklet and
Special Prices
and Terms on
Grimm and I. K.
L. Evaporators.



GRIMM MFG. Co., 3703 E. 93rd St., Cleveland, O.

Name _____
P. O. _____
No Trees Tapped _____



HOLSTEIN The Farmer's Cow

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

Write for literature
Extension Service
The HOLSTEIN-FRIESIAN
ASSOCIATION of AMERICA
230 East Ohio Street Chicago, Illinois

SPRAY PAINT OUTFIT DANGEROUS IN HOME

ACCORDING to fire insurance authorities, the rapid growth of the spray method of finishing automobiles, furniture, and other equipment has awakened certain manufacturers to the possibilities of using this method in the home.

Such use of these small spray outfits would not be particularly objectionable if the users were cautioned as to the extreme inflammability of these painting materials and the

necessity of doing the work outdoors and of keeping all fire entirely away and of not allowing cleaning rags to accumulate. They should be handled with the same care as for gasoline.

But in order to popularize these spray outfits, some manufacturers advocating their use for starting fires, burning off paint, burning insects, thawing frozen pipes, as a blow torch for soldering, and so on. Burning off paint is an extremely dangerous proposition, except with equipment especially designed for the work and in the hands of experienced workers;

over by a skilled worker is not particularly dangerous; but a cheap, leaky sprayer used for this purpose is almost sure to start a fire. Which do you value the most—the saving of a little time and expense or the safety of your home and loved ones? If the last, don't fool with these spray outfits for purposes not approved by the insurance authorities.—I. W. Dickerson.

SOILS COURSE POPULAR IN EATON COUNTY

THE soils course now being given in Eaton County is one of the most fundamental pieces of improvement work ever carried on here," says Claire Taylor, county agricultural

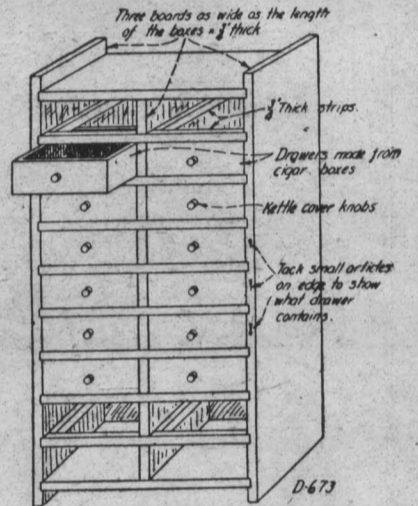
agent of Eaton County. Taylor referred to the four-lecture soil course now being carried on in eight Michigan counties under the direction of J. W. Sims, soils extension man of Michigan State College.

Thirty-three farmers, representing every township in Eaton County, have already shared the first study. Each one of these men endeavors, through a community meeting at home, to pass on the most important parts of the lectures heard. Reports already show that as high as 17 neighbors have gathered to get such dependable information.

A better understanding of the soil, how to increase its water holding capacity, how to more easily and surely grow the legumes, and the functions of the various plant foods contained in commercial fertilizers is the very foundation upon which successful farming rests. Soil produces the crop, the crop grows the live stock, live stock profits enrich the home and make for a more enjoyable home life and richer living.—I. J. M.

HANDY CABINET OF CIGAR BOXES

I HAVE made a small cabinet of cigar boxes for holding screws, stove bolts, hinges, hooks, buckles, rivets, and other small articles so valuable around the farm and so hard



A Message to American Farmers
After 46 years in the separator business, selling to 1,400,000 farmers the highest grade, the closest skimming, the most durable and convenient separator ever made, I believe farmers should take my tip when I say, "Here's an offer worth investigating." The most liberal, money-saving offer I have ever seen on a highest grade, standard make cream separator.
P. M. Sharples

No Discs

Only 3 simple parts instead of 30 to 60 cumbersome discs. One-third the weight. So much easier to take apart and put together. Real self balancing bowl, suspended from a ball bearing; can't get out of balance.

Easy to Turn
Weight of crank starts it; two fingers keep it going. Real easy turning, thanks to light weight bowl, ball bearing and special gears.

Knee Low
The top of the Sharples supply tank is only slightly above the knees—lowest of all, by far! No heavy lifting, no spilt milk. Easy for women and children.

Cleaned in 2 Minutes

Only 3 simple parts—no discs to wash. Many users say they can clean the Sharples in 2 minutes! So easy to take down and assemble—a child can do it! No other separator compares with Sharples for easy cleaning. You'll enjoy keeping the Sharples clean, sweet and sanitary.

Mail Coupon NOW

Sharples Separator Co.
6181 Sharples Bldg., Chicago, Ill.
Please send me absolutely free and without obligation your catalog and description of the New Sharples Cream Separator and full details of your Special Temporary Offer of \$20 allowance on my old separator and 30 day trial offer.
Name.....
Address.....
Town..... State.....

\$20.00
for Your Old Separator

The most startling, the most wonderful offer ever made on cream separators; and this \$20 allowance is only a smaller part of the startling Sharples offer. Read below:

Send coupon below today for full details of our startling offer, direct from the Sharples factory to you. No matter what make of separator you own, while this offer lasts, we'll give you \$20 allowance in exchange for

The NEW Sharples

The greatest Sharples in 46 years! Always a champion skimmer, as 1,400,000 farmers know. Skims like new after years of service. Wonderful improvements make this new model easily the most convenient of all cream separators, 63 out of the 64 separators on the market are practically alike—only Sharples is truly different. Send coupon below, find out how Sharples offers advantages found on no other separator.

Tremendous offer explained in our circular. Huge saving on the very top notch of all separators, if you write quick.

30 Days Trial

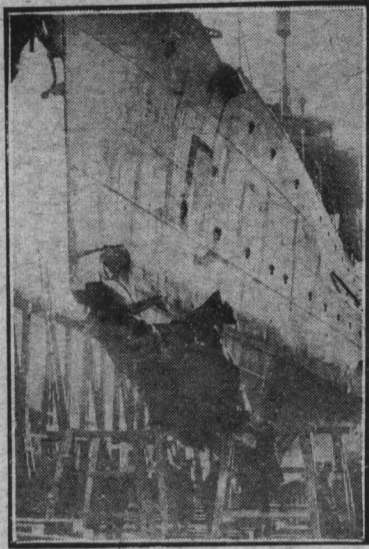
Bought by 1,400,000 farmers heretofore only through dealers, now shipped direct from factory on 30 days trial. Yes, Mr. P. M. Sharples, pioneer separator manufacturer, has decided to stop those wasteful selling methods which made farmers pay \$110, \$125 and up for a high grade separator. The Sharples is now shipped direct from factory on 30 days trial. See for yourself what a wonderful skimmer it is, how easy to operate and to clean, how much more convenient it is than any separator you ever saw or used. Your word decides after the trial. If satisfied, the rock bottom price—amazing reduction—the lowest prices ever made on a high grade, standard make separator (and special exchange offer, as explained above, if you write quick).

Free Catalog!

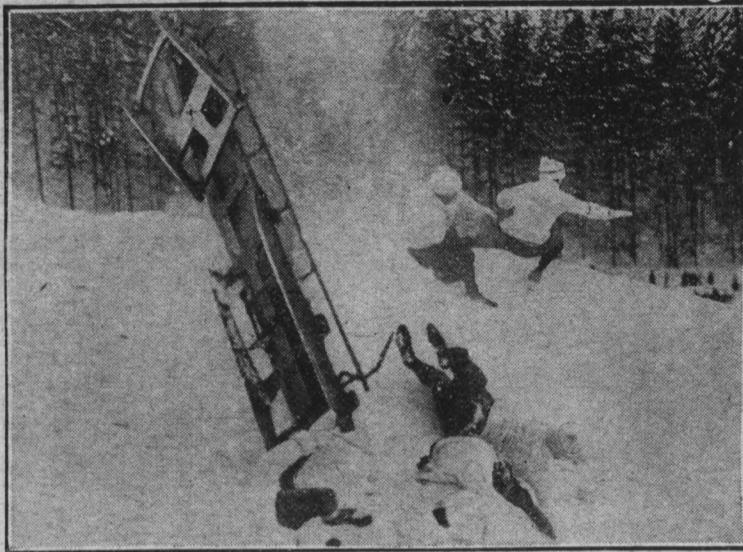
Stop losing cream with a worn-out separator and you increase your cream profits. Wonderful opportunity to get the best of all separators on a liberal trade-in offer, direct from factory at a startling low price. Find out about the amazing NEW Sharples—how it saves cream wastes; how it will make more money and more profit for you. Catalog and full details of temporary \$20 allowance on your old separator, 30 day trial offer and special low price now in effect, sent free and without obligation. Send coupon now.

Sharples Separator Co., 6181 Sharples Bldg. CHICAGO, ILLINOIS

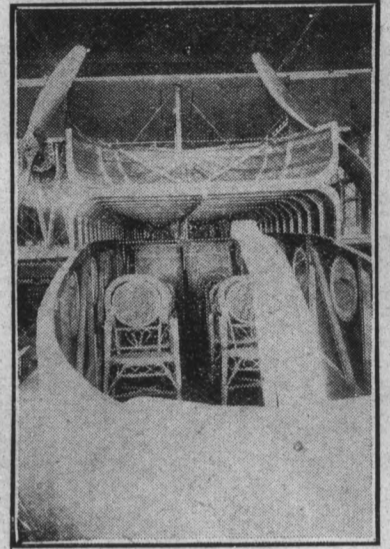
WORLD EVENTS IN PICTURES



Coast guard Paulding, which sent the S-4 to ocean grave, goes into dry dock for repairs.



It's no fun to have this kind of snow fun—a few bones were broken, but photographers have waited years for a chance like this.



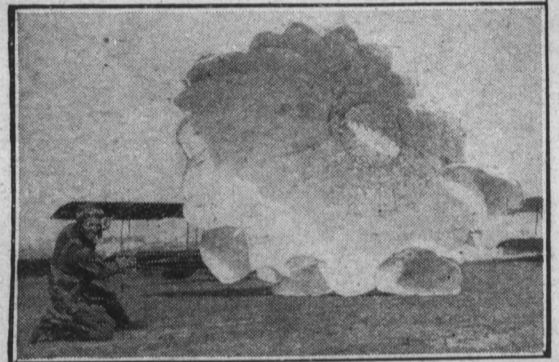
This 16-passenger flying boat will make daily trips between New York and Havana.



The interior of Jewish Zion Temple in Rumania was wrecked by a mob of anti-Semitic students who killed seven worshipers.



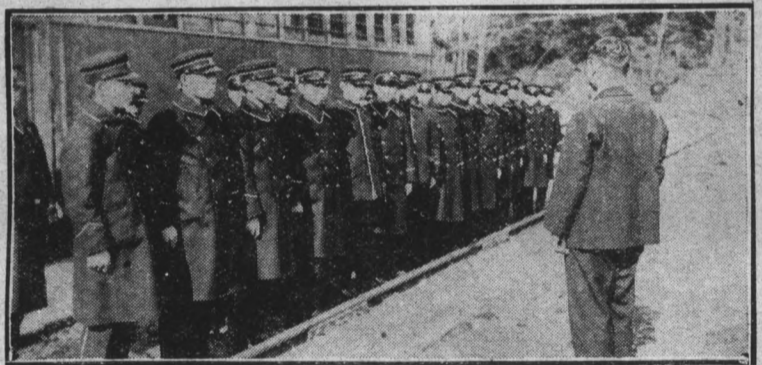
Mara Spiegel, eight years old, has been signed up as a successor to Jackie Coogan.



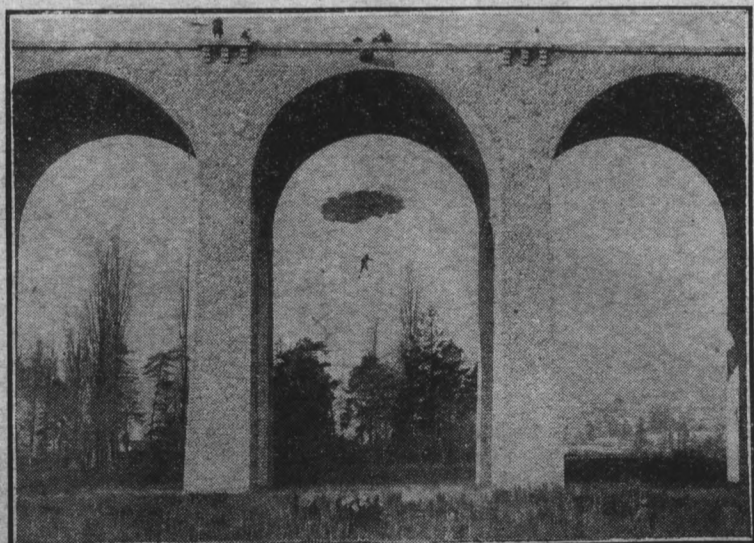
The air pockets in this newly invented parachute, which is half the regulation size, are claimed to give it greater buoyancy.



Thirteen of America's greatest girl swimmers set sail for Bermuda to participate in two meets. Eleanor Holm, in the center without the hat, is the thirteen-year-old national medley champion.



A squad of Japanese boys were recently put into uniform by the municipal street railway of Tokyo and tried out as street car conductors.



This picturesque parachuting was performed by Mademoiselle Bonte on a viaduct near the outskirts of Paris. The short distance of eighty-seven feet made the jump most hazardous.



Airview of Salcaja, Guatemala, as Lindbergh saw it on his way to Central America. It was reported that the flight over the mountains of Guatemala was the most difficult part of his trip.

Educating African "Bush" Boys and Girls

Missionaries Do Commendable Work in Lagos, Four Hundred Miles from Equator

By Francis Flood

THERE'S nothing to do here in Lagos," advised some of the ship's officers as our freighter, the "West Humhaw," nosed into the harbor of Nigeria's capital city, the metropolis of equatorial west Africa. Jim and I had bought our tickets from New York clear down to Lobito Bay, in the southern tropics, but we were to stop over for ten days in Lagos, about 400 miles north of the equator.

"All you can do is to go to the Bonanza Hotel and sit around in the bar for ten days with your feet on the table—or your head on the table, depending on how you hold your liquor. There's nothing else to do. You can't go back into the interior, because you'd have no place to stay. There are no hotels at all there and the few English traders and government officials you'll find won't even say they're glad to see you, because they won't be."

It didn't sound very exciting, but as we lay out in the harbor before pulling alongside the dock we decided there must be something more interesting in a west Africa coast city than a hotel lobby, and ten nights in a barroom didn't particularly appeal to either Jim or me.

An enchanting little harbor it was, nestled there in a kind of twilight between the shrouded mysteries of the



This Mohammedan Teacher Believes That With a Student on One End of the Log and a Good Teacher on the Other, You Have a Potential University.

Dark Continent and the unfolding light of progress and civilization from the lands across the sea. We were at the threshold of Africa.

To one side of us, on the point of a sandy beach that reached out like a hand of hope from the tangled jungle hinterlands stood a cluster of grass huts within a compound built of reeds, bamboo walls, and mud. A half-dozen native women, their black bodies blending into the jungle background as it in turn fused into the greater blackness that is Africa itself, were poking about in their smoking little kettles over smudgy fires that seemed unnecessary in the sultry heat of the sun, others were squatting at their task of washing or dyeing a bit of colored cloth, or nursing the inevitable little black "pickins" that hang like leeches on every mature female in Africa. In that direction lay the interior, the "bush," the black heart of the real Africa we had come so far to see.

On the other side lay, first, the little harbor, the antechamber of the Dark Continent. Here was our own American cargo boat with its rollicking name, the "West Humhaw," and its

cargo of American gasoline, flour, sugar, automobiles, phonographs, and the other bribes with which civilization is buying its way into Africa. A passenger ferry steamed across our bow filled with a job lot of black oddments commuting across the harbor from Lagos to Apapa as modernly as their black cousins in Harlem or Little Africa, New York, ferry back and forth to work.

A dingy, screeching harbor dredge, the "Queen Mary," growled away in the mud as if mocking the good British subject who had loyally painted that name across her greasy bow. Two puffing tugs and a German freighter were moving in from the sea and a "lady liner" lay gracefully at the dock. Beyond was spread Lagos like a fat sentry asleep at his post.

AFTER a dozen people had confirmed the advice of the "Humhaw's" officers we went to the Bonanza for lunch, and incidentally found the lobby and dining room of that object of ridicule much better than its reputation. As we were eating, an American accent behind us, as out of place there as in the foreign districts of New York, invited us over to another table and introduced a tall and friendly corrugated iron salesman and his blackhaired American wife. Here was a freedom of friendliness no Englishman would stoop to indeed! And before our meal was finished, they had invited us to stay with them at the house they had rented for the period of their stop in Lagos.

This American amicability gave us an inspiration and we hunted up an American Baptist missionary, those unofficial American consuls that one finds in the blackest bush or the remotest corners of the earth. "Why don't you take a little trip back into the interior?" this American asked us when we told him our business.

"They tell us it can't be done; there's no place to stay, and no place to go, and—"

"Well, now, you go up to Abeokuta, about 65 miles inland, and our missionary there will show you differently." And he sent a telegram advising this bush missionary that we would be up to see him the next day. "You'll find plenty of things of interest here in Lagos if you look for them, but you'll probably find more up country," he told us. And we did—in both places. He changed our opinion of many things before we finally left Lagos for good.

For instance, we had been told that it was only by very short periods of residence, certainly never over fifteen months at a time, followed by a year's vacation at home, in England, and then only by carefully preserving one's health in a certain amount of alcohol, that a white man could live on the west coast of Africa more than a very few years at the most. And yet we found that this missionary and his wife had been spending three years at a time on the west coast, had carelessly left alcohol entirely alone, and were just completing their twenty-sixth year of service. I found further, after several desperate attempts to prove it not so, that this veteran coaster and his wife could beat Jim and me at tennis and come up just as fresh after each set as we did. And I'm no slouch of a tennis player either for at the annual Armistic Day fete at an inland city a month later,

another American and I won the doubles championship from a field of twenty-six contestants—but that is a different story.

In spite of the record of these people, however, and in spite of the fact that in the last eighteen years during which time there have been from a dozen to thirty or forty American missionaries in Nigeria, there have been only two deaths, the three year period of service is too long, and missionaries, as well as government and commercial people, should not be required to stay so long on the west African Coast without a period of rest and recuperation at home. During the two or three months that Jim and I spent in Nigeria we felt our general vitality wane and our energy and enthusiasm gradually to weaken as the effects of the hot, sultry climate, the daily dose of five grains of quinine, the sun, and general condition began to get in their work. West Africa is no health resort.

DURING the months I eventually spent in Nigeria, on the coast and in the interior, I learned many things about the genus missionary. For one thing, I gradually discovered that one reason why my advance information and advices concerning missionaries and their work was so unfavorable to them was that my informants usually know nothing whatever about the subject except hearsay and thus most of the gossip about missionaries is not founded on facts.

Here is one example. There are very few Americans in Lagos—less than a dozen most of the time—and one would suppose that these few would know each other and each other's work well. One American commercial man who had been in Lagos for some time told me my first day in town that there was an American mission in Lagos but he didn't know the names of the people. He suggested that I wait until noon to call on them because he thought they had a dozen or so native students in their care and couldn't leave their classes. Then he proceeded to tell me considerable about missionary work in Africa.

I found upon visiting the school that there were two Americans in charge, eight or ten educated native teachers, and a few hundred native students going to school in buildings that were erected for that purpose forty years ago. My American informant knew nothing of this and yet he was full of general information about missionaries and their work, practically all

of which was heresay. And since much of this is unfavorable an unfortunate injustice is being done to the missionary work.

One English journalist visited a certain mission industrial school in Nigeria, spent about fifteen minutes there, and then wrote in his magazine that the native boys were being exploited by the missionaries and kept in virtual slavery. I visited the same school later and found that the boys were getting their tuition, and even their board and lodging and clothes, and had to work considerably less than I, for instance, and a great many other American college students, who had to work when going to school in the United States.

I visited a girls' school a few miles inland, financed and conducted by a small staff of Americans and learned that the native girls are paying \$75 per year which covers tuition and board and room. Along with the three R's these mothers of the future African race are being taught homemaking, child care and sanitation and, incidentally, they are being taught Christianity only if they care to accept it for a large per cent of them are from Mohammedan families and continue in the Moslem faith.

When one learns that the infant mortality rate in this part of Africa is from 60 to 80 per cent and in some places, where the population is denser than it is in the United States, still higher and when he observes, as any casual visitor can, that much of this comes from ignorance of child care, filth, and preventable disease, he can appreciate the value of this training, especially since this school was started even before Livingstone's excursions into Africa and before England had any foothold in Nigeria.

There are 1,300 school children in Lagos (there is only one white child) out of a native population of 100,000, and nearly all of these are in mission schools. In the American Baptist school alone there are over 100 Mohammedans. It may be a mistake to furnish education to the millions of ignorant blacks in Africa, but most of the enlightened world today admits that to keep a race in ignorance and to deny them education is not in line with real progress, as history has shown in the past. Even with the hundreds of mission schools that are now operating in Nigeria only a small fraction of a per cent of the children are in school and education cannot come so fast that it will be "dangerous" for many, many years.

Our trip inland to Abeokuta and our experiences there will be described next week.

Under the 4-H Flag

By John Francis Case

CHAPTER IV

The County Farm Agent

DURING the busy days which followed their first occupancy of the old farm, Bob Barton found little time to speculate upon or worry over the sinister happenings which had befallen their predecessors. True, he had pointed out to his father the words on the barn door and had retold the story as he had it from Ted's lips. But Bradley Barton's imagina-

tion ran along other lines. "Cheap melodrama," he had said. "The Harkins family and the Perkins family were related. There had been bad blood between 'em, so O'Neal says. Probably the Perkins scared the Harkins away, so they could get the farm and then Harkins paid 'em back in their own coin. We are newcomers here, Bob, and nobody is going to harm us. The thing that interests me is whether Landlord Jones is going

Activities of Al Acres—Shoot Two of Them, Slim. Maybe Al Would Like a Coat Also

Frank R. Leet



to allow us to cut posts and wood. I've 'phoned him, and he'll be over next week. Quit thinking about that foolishness," Father Barton had concluded, and Bob, half convinced that his father was right, was lulled into forgetfulness.

It was Tuesday of the second week when a mud-spattered car stopped at the front gate and a young man strode up the walk. Tall and with the build and carriage of an athlete, the stranger won Bob Barton's instant admiration as he opened the door. The noon-day meal was being prepared, and Father Barton, before the fireplace, was playing dreamy melodies. "Good morning," said Bob, "won't you come in?"

"Only for a moment," answered the visitor. "It's almost noon, and I must be getting on. Just wanted to introduce myself. Mr. Barton, I presume?" as Bob's father rose. "I'm Ross Burton, the county farm agent. Mr. Baldwin, one of our farm organization directors suggested I might be some help to you."

Bradley Barton was a gentleman and would show no discourtesy, but there was no warmth in his greeting. "Sit down, Mr. Burton," he invited, then as Mother Barton came in from the kitchen, "Mother, this is Mr. Burton, a friend of the Baldwins. He's the county agent here."

There was even less warmth in the handclasp which Mother Barton bestowed. "Yes, we have had some experience with agents," she remarked with emphasis on the last word.

Ross Burton was quick to sense the veiled hostility. But he was not one to be quickly rebuffed. "There are agents and agents, Mrs. Barton," laughed Burton, "and I'm not responsible for the title. It was wished on me. In fact, I'm just a hired man. I'm an agricultural college graduate employed in this county for consultation and demonstration in farm and live stock work. When farmers want me, I work with them; when they don't, I let 'em strictly alone. I have nothing to sell, to rent, or to give away except service. As you folks are new here, it is possible that I could be of some help in planning your farm work this year."

Mrs. Barton unbent slightly, but the memory of misrepresentation by Agent Sims and other "agents" with whom she had dealt rankled. "I don't see where the farm women come in on that," remarked Mother Barton. "It seems to me that they need help as much as the men."

"Right you are there," answered Burton quickly. "Even more. And in this county you get that help. Our home demonstration agent, Miss Edwards, is one of the best in the state. Ask Mrs. O'Neal or Kate. I'm sure they will bring her over to see you. But I must be getting on, Mr. Burton," concluded the agent as he put out a hand in farewell, "that's a fine instrument you have there. I heard you playing as I came up the walk. You have the touch of a master. I play a bit myself. There's no instrument like the violin. I love it as did my father before me."

Into the eyes of Bradley Barton leaped the light which always came with praise of his beloved violin. "It is a great instrument, sir," he said, "and mine is one of the best that a poor man could buy. Here, let's see what you can do," and Barton thrust the violin into stranger hands.

"Oh, I'm only a novice," said Burton, "but I would like to try this beauty on one tune." Strong fingers clasped the bow, flitted over the strings and melody which rivaled that of Bradley Barton's creation broke on the air. It was the Toreador's Song from "Carmen," and all the virility of youth and strength was in the movement as Burton swept on to its stirring close. Barton had sat with a look of intense concentration on his

face as the visitor played and now he sprang to his feet.

"By the gods," cried Bradley Barton, "you can play! Grace, get out the piano accompaniment. Bob, bring down your cornet and the other violin. We are going to play to the Toreador. No," as Burton protested that he must go, "you can't get away. Yours is the musician's heart, and you love to play as I do. We are going to give a concert right now."

"But the dinner, Brad," put in Mother Barton. "It's almost ready. If it waits it will be spoiled."

"Bother the dinner!" cried Burton. "We can eat when we can't play. Well, one tune, then, and after dinner some more. No, you aren't going to leave," as the agent disclaimed any intention of troubling them at meal time. "You are our guest."

It was three hours later when the starter on Ross Burton's car whirred and the agent started on to a delayed appointment. Hours filled not only with melody but with a joy of comradeship for Bob Barton. Here was the virile type of young manhood which wins boyish hearts. Father and Mother Barton had been won, too, by the pleasing personality of their visitor, and Ross Burton had promised to come back again soon. "But you'll have to leave the violins cased, Mr. Barton," the county agent had warned, "or we'll never get anything done. I'll visit you some night and we'll have a real music-fest. Miss Edwards sings; I'll bring her along." Whistling blithely, Burton went on his way and a remark made to his trusty car might have sounded strange to human listeners. "Liz, old girl," said the farm agent as they plowed the mud, "it takes many kinds of bait to catch farmer fish. I landed that one with the old Toreador."

For generations the farm now occupied by Bradley Barton and family had been owned by members of the Jones family. In fact, it was the boast of its present owner that it had been entered as homestead of his grandfather and that so long as he lived no alien should live on the farm except as tenant. Old, infirm, and childless, Thomas Jefferson Jones lived his lonely life in a great house built years before in the county seat town of Warford. It was fifteen miles away and Jones, commonly known as "Squire," as the result of some long-forgotten election, seldom visited his old home. Provided with ample income for his needs without the farm's rental, Jones yet always had proved a hard master, demanding the last dollar due, no matter what ill luck befell his tenant. Dollars spent on fencing and repair had been few and far between. And now that he had been forced to pay a liberal commission to an agent, the old squire was even less disposed to liberality. A natural curiosity to see what manner of tenants he had rather than any desire for their welfare or interest in upkeep of the place, prompted Jones to accept Barton's invitation to come and talk over the year's work. It was the day following Burton's visit that he arrived, bundled warm against the penetrating wind, fuming because of the high charge made by the chauffeur of his hired car. Again it was almost noon and Mother Barton bustled about in preparation of the meal. Much might depend on the impression made.

(Continued next week)

REASON WHY

Hubby: "I'm going to take this razor back. It doesn't cut at all."

Bride: "You don't mean to tell me that your beard is tougher than the linoleum that I cut this morning."

Getting angry is about as profitable as cutting one's own hair; we make a spectacle of ourselves and in the end have to do the job over.

"I'll say it's good fertilizer!"

Harrison Powell, of Boonville, Indiana, won First Prize in the Hoosier 10-Ton Plus Tomato Club. Powell produced 43 tons of Tomatoes on 3.1 acres or nearly 14 tons per acre and "The Fertilizer Leaders of America" helped him to win the Indiana Championship.

What "The Fertilizer Leaders of America" have done for Mr. Powell they will do for you, and whether it's corn, cotton, small grain, tobacco or tomatoes "The Fertilizer Leaders" are First on Every Field.

Farm for a profit instead of the fun of it. Look to "The Fertilizer Leaders of America" for your fertilizer and get in every bag the the largest amount of:

- 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.

Take a forward step this year and fertilize liberally with one of the brands made by "The Fertilizer Leaders of America." Order their fertilizer now from your dealer and prepare for a large and profitable harvest.

GLOB FERTILIZER THE WORLD'S BEST
FOX FERTILIZER AHEAD IN THE CHASE
OLD KENTUCKY OK FERTILIZER
DAYBREAK FERTILIZER

Made by the Fertilizer Leaders of America

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

SALESMEN You can make big money taking orders for our trees and shrubbery. Experience unnecessary. No dull seasons. Every home a prospect. You simply take the order. We deliver and collect. Pay weekly. Commission basis. **Willems, Sons' Nurseries, Desk B-7, Rochester, N. Y.**

EDWARDS METAL ROOFS
 LAST LONGER LOOK BETTER

SAVE YOU MONEY

Edwards Metal roofing, shingles, Spanish tile, sidings, ready-made garages and farm buildings, are rust-proof, fire-proof, lightning-proof. Last three times as long as ordinary kind. Quality in every detail. Styles and types for every purpose. Easy and economical to apply. Lifetime satisfaction. We are the world's largest manufacturers of sheet metal building materials. We control every operation from the raw metal to the finished product. You can buy from us at manufacturer's prices and save all intermediate profits. Write today for our Free Samples and prices. Ask for Roofing Book No. 167 or for Garage Book. **THE EDWARDS MFG. CO.** 117-167 Butler St., Cincinnati, O.

"FRIEND" TRACTION SPRAYERS

Write for catalog and learn about the many exclusive features of this fine sprayer.

"FRIEND" MANUFACTURING CO.
 142 East Ave., Gasport, N. Y.

25% OFF TANNING HIDES
 Fur, Robes, Coats, Leather, etc.

Better work -- better service direct to you at agents' prices. Tanning horse and cow hides. \$3.50 to \$5.50. Ship where thousands of others are shipping and save 25%. Write for prices. **Badger Robe and Tanning Co.** Stevens Point, Wis.

Reading Robe & Tanning Co.
 Reading, Mich.
CUSTOM TANNERS

Send us your hides and fur pelts to be tanned and manufactured into coats, robes, neck pieces, collars and cuffs or other fur trimmings. We do repair work. Satisfaction guaranteed. Write for Free Catalog and Price List.

BUY DIRECT AND SAVE HALF

Peaches	\$9.85 per 100	Apples	\$18.00 per 100
Cherries	28.00 per 100	Grapes	4.00 per 100

Specials: Mastodon Everbearer Strawberries, Washington Asparagus, Latham Red Raspberries. Fruits of all kinds—also shrubbery, Roses, Evergreens and every thing that a first-class nursery handles. Send today for beautiful catalog, sixteen pages of color—full of Big Bargains, free for the asking.

CELERY CITY NURSERIES, Dept. 26, Kalamazoo, Michigan.
 42 Seasons of Direct Selling



FOR COLDS
ASPIRIN
 BAYER

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

Physicians prescribe Bayer Aspirin; it does NOT affect the heart

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

SET OF DISHES FOR SELLING ONLY 30 Pkts. of Seeds **GIVEN**

A CHARMING all-white embossed set, for selling only 30 pkts. Vegetable and Flower Seeds at 10c large pkt. No extra money to pay.



AMERICAN SEED CO. Dept. E-190 Lancaster, Pa.

save 1/3 to 1/2

New FREE book quotes Reduced Factory Prices. 5-Year Guarantee Bond on Stoves, Ranges, Furnaces. 200 styles and sizes. Beautiful porcelain enamel ranges and combination gas and coal ranges. Mahogany porcelain enamel heating stoves. Cash or easy terms. 24-hr. shipments. 30-day free trial. 300-day test. Satisfaction guaranteed. 26 years in business. 650,000 customers. Write today for FREE book.

Kalamazoo Stove Co. Manufacturers
 121 Rochester Avenue
 Kalamazoo, Mich.

Ranges \$49.95 Up "A Kalamazoo Direct to You!"

\$1 for 18 Plants, \$2 for 75, \$5 for 200
NEW STRAWBERRY BEARS
 for 10 MONTHS

Big, juicy, firm berries, 90 days after planting, all summer, all fall, and next summer and fall. Enormous yields—576 qts. (\$200 worth) 1 day's picking, 1 acre. Order now—orders filled in rotation. Big catalog, small fruits—free.

KEITH BROS. NURSERY
 Box 71 Sawyer, Mich

9 to a layer, 18 to a Qt.

Woman's Interests

Serve Soup With Savory Garnishes

If You Would Tempt Both the Eye and the Palate

By Mary Richards

SOUP is the meal's stepchild. At least it is not garnished as daintily as salads, sandwiches, desserts, and other dishes. Too frequently it is poured quickly into bowls, carried to the table and served with crackers that have not been made crisp by a short visit in the oven. Yet the steaming first course responds to attractive decorations as readily as other foods. Fortunately, soup garnitures are edible. They contribute to the food value of the dish in addition to enhancing its appearance. Relishes of different kinds add zest to the hot liquid course. Pickles, olives, and celery are worthy favorites. They and saltines are to be commended for their faithfulness as well as their flavors. There are, however, new ways of

cup, place in a pan of warm water and bake until firm. Cool, remove from the cup and cut in fancy shapes. Serve in soup.

Sticks in Rings

Cut stale bread in one-third inch slices, remove crusts, spread thinly with butter and cut slices in one-third inch strips and rings. Bake until delicately browned. Arrange three strips in every ring and serve with soup.

Celery Relish

1 1/2 cups chopped celery 1 tsp. salt
 4 tps. powdered sugar 1/4 cup vinegar
 1/2 tsp dry mustard

Mix chopped celery with powdered sugar, dry mustard, salt, and vinegar. Cover and let stand in cold place for two hours. Drain off liquid before serving. Include some of the tender celery leaves in the relish for they improve its appearance.

MORE RESOLUTIONS

THE past few months it seemed I never could get done the things that must be done and I found myself becoming more and more the "housekeeper" and less the "homemaker." Now I have set about to discover ways to accomplish the necessary work in less time in order to have more time to devote to the children. More labor lifters and perhaps more efficient use of the ones on hand seemed the only solution and I have resolved that 1928 should find me adding some new equipment to save the precious hours.

I have kept accounts for a number of years and think it profitable to do so. It is my plan this year to make the farm furnish us a larger amount of our food supply and thus cut down expenses without reducing our standard of living.—Mrs. Wm. E. F., Me-costa County.



Directions For Making This Flower Are Given in Our Bulletin "How to Make Crepe Paper Flowers," Price Ten Cents, Address Your Orders to Desk L.

serving these foods as well as others to be eaten with bowls of broth.

Recipes for some of my favorite soup accessories are given here in hopes that you will enjoy using them in your household for I always feel that time and effort used in making these dishes are well spent.

Noodles

Beat an egg slightly. Add one-half teaspoonful of salt and flour enough to make a very stiff dough. Knead, toss on a floured board and roll as thinly as possible. Cover with a clean towel and let stand for twenty minutes. Then cut in fancy shapes, using a sharp knife or tiny vegetable cutters, or the sheet may be rolled like a jelly roll, cut in slices as thinly as possible, and the pieces then unrolled. Dry and when needed, cook twenty minutes in boiling salted water, drain and then add to soup.

English Bits

1 egg 1/2 tsp. salt
 2 tbs. milk 1/2 cup flour
 Fat

Beat egg until light. Then add milk, salt, and flour. Rub through a colander, or a pastry tube if one is available, into deep fat, heated for frying, and fry until brown. Drain on brown paper. Use as an accompaniment to soup.

Egg Custard

Beat two eggs slightly and add two tablespoons of milk and a few grains of salt. Pour into a small buttered

After listening over the radio on Christmas night to the story entitled "The Christmas Heretic," I made a resolution for the New Year. Our family purse is always low about Christmas time, so I am never able to give all I would like to, but I have resolved to give a few pleasant surprises every month to my family and friends and remember Margaret Sangsters thought: "Count that day lost, whose low descending sun Views from thy hands, no worthy action done."—Mrs. E. D. R., Wayne County.

MACHINE MADE QUILTS

UNTIL this summer I have always quilted by hand. That is, I've put my quilt on the frame, stretched the top and lining alike and proceeded to tie it or stitch it by hand. Last summer I discovered that this stitching could be done on the machine much easier and I could save hours of work.

When the top and lining were stretched in place, I pinned the top and lining together at intervals of about a foot around the whole frame. I loosened one end and rolled back, pinning across as I did around the edge. When I had it out of the frame, I threaded the machine with No. 40 thread and sewed along the quilt lengthwise.

It worked so well that I made another quilt the next afternoon. This time I filled five bobbins before I started. I marked the top and followed this. I started in the middle and sewed across each corner three times. When it was finished it looked prettier than the first one and just as easy to do. An old lady told me once, "that head work saves hand work," I realized how true that was when I had finished the two machine made quilts.—Mrs. Fedje.

Big Moments in Little Lives

By Margaret Conn Rhoads

TOO often the big moment in a child's life is wholly overlooked; not even recognized many times, by the parents. These moments are very important and really need watching for.

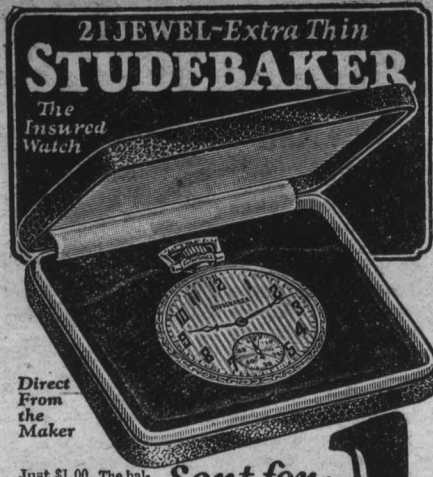
When Bobby was taken out for the first time on a star-lit night, he wondered at the glory of the heavens. In his early-to-bed regime he had never stood under a sky with twinkling stars and, as he looked, he marveled and suddenly tightening his grip on his mother's hand, he said joyously: "Why, Mother, I fink I almost seed God." This was indeed a big moment. Fortunately for Bobby, he had a mother who understood, she knew that her child had visualized God in his power more than he had ever done before in his baby life. This moment needed her attention.

Billy, who was a sadly wilful child and was always being checked or chided on account of some misdemeanor, quite unaccountably did an unusually kind, self-sacrificing act. When he realized that he had been responsible for this voluntary goodness, he said in great surprise: "Why, Muvver, I isn't all bads, is I?" This was a big moment in his life, and his mother, recognizing the truth of his statement, began at once to take a

different course in her training of Billy. Today Billy and she have found out that her small son has many more "goods" than "bads" and they are both enjoying the quest for them. Billy has to be punished only rarely now because in a moment when his own self awakened to his actions, his mother awakened also.

Little Betty, who sat upon the floor with a large family of dolls surrounding her, said with quiet decision: "I want to be real mother of real children some day, Mother." She wasn't laughed at nor told not to be thinking such silly things yet; she was helped in her awakening moment. Taking her on her lap her mother told her that to be a mother was one of the most wonderful things on earth and that both she and Betty were already interested in just that thing. Then the mother told her that each day she would try to help her in the things that went to make for lovely motherhood.

Can any parent afford to miss these moments?—moments when the soul of the child begins to be felt by itself; moments when some divine touch reaches the child and opens up the future pathway of life; moments that need the companionship of a true comrade.



Direct From the Maker

Just \$1.00. The balance in easy monthly payments. You get this famous Studebaker 21-Jewel Watch direct from factory at a saving of thirty to fifty percent.

Your choice of 20 new Art Beauty cases and dials. Latest designs in white gold, yellow gold and green gold effects, 8 adjustments, including heat, cold, tachronism and five positions. Insured for a lifetime.

Watch Chain FREE! For a limited time we are offering a beautiful Watch Chain free. This special offer will be sent to everyone who writes at once. Don't delay! Get this free chain offer today—while it lasts.

STUDEBAKER WATCH COMPANY Directed by the Studebaker Family—known for three-quarters of a century of fair dealing Dept. E990 South Bend, Indiana Canadian Address: Windsor, Ont.

SEEDS Reliable and Full of Life SPECIAL OFFER Made to build New Business. A trial will make you our permanent customer. PRIZE COLLECTION Radish, 17 Varieties, worth 15c; Lettuce, 12 kinds, worth 15c; Tomatoes, 11 the finest, worth 20c; Turnip, 7 splendid, worth 10c; Onion, 8 best varieties, worth 15c; 10 Spring Flowering Bulbs, worth 25c—65 varieties in all; worth \$1.00. GUARANTEED TO PLEASE Write today; mention this paper SEND 10 CENTS to cover postage and packing and receive this valuable collection of seeds post-paid, together with my big instructive, beautiful Seed and Plant Book, tells all about Buckbee's "Full of Life" Seeds, Plants, etc. H.W. BUCKBEE Rockford Seed Farms Farm 42, Rockford, Ill.

Get this FREE CATALOG This new catalog is a directory of big values in fruit trees, berry plants, shrubs, bulbs and seeds. It is absolutely free. We offer such values as 100 3-ft. peach trees for \$12.50. Guaranteed stock. Write for your copy of the catalog today. ALLENS NURSERY & SEED HOUSE Box 7 Geneva, Ohio

Just Try a Michigan Farmer Liner for Quick Results.

WINDBREAK EVERGREENS \$3.50 From FERRIS PER 100 And Up EVERY farm home needs a shelter belt of EVERGREENS. No other investment adds so much in value for the cost. Evergreens are popular, because they save fuel, protect the stock and are beautiful all the year. FERRIS is headquarters for EVERGREENS of all kinds. Millions of seedlings grown under shade. Hundreds of acres of "stumpless" evergreens. The FERRIS ROOT SYSTEM, exceptionally hardy through root pruning and transplanting, has made Ferris Evergreens famous. All varieties. Get Ferris Nursery Book, FREE. Earl Ferris Nursery 606 Bridge St., Hampton, Iowa

Good seeds -grown from Selected Stocks New crop, tested seeds sure to produce. Noted for their vitality. Sold for 58 years to satisfied customers. Prices reasonable. Extra packages free with every order. Large catalog with 700 pictures of vegetables and flowers. Send yours and neighbors addresses today. free R. H. SHUMWAY Dept. No 50 Rockford, Illinois

MORE POTATO RECIPES

I RECEIVED my Potato Bulletin and I want to thank you for it. Here are two more recipes for potatoes that we like very much.

Potato Puffs

- 2 cups mashed potatoes 1 tb. butter
2 egg yolks Salt to taste
3 tbs. cream

Stir constantly over a slow fire until potatoes are hot and light. Remove from the fire and stir in carefully the beaten whites of two eggs. Put in greased gem pans carefully and bake in a quick oven.

Potato Doughnuts

- 1 cup mashed potatoes 4 tsp. baking powder
2 tbs. butter 1/2 tsp. salt
2 eggs Nutmeg
1 cup sugar Flour
1/2 cup sweet milk

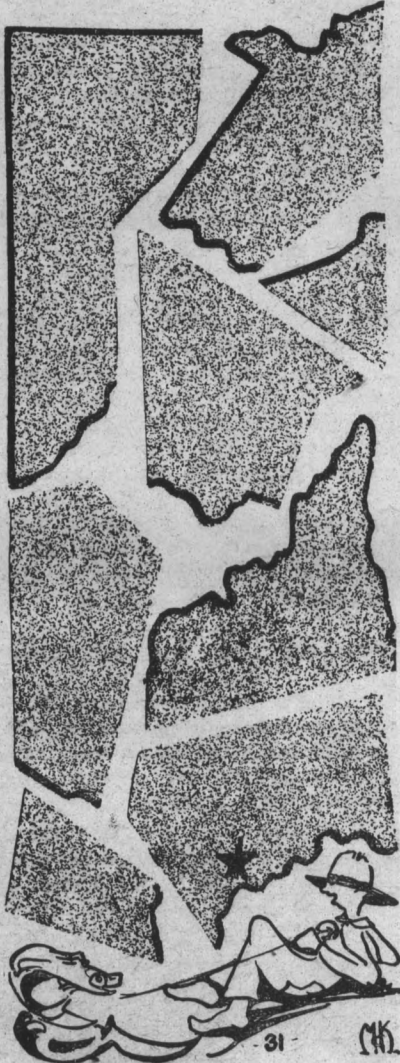
Add butter, eggs, sugar, and salt to the hot mashed potatoes. Mix the baking powder with two cups of the flour and add to the mixture. Add enough more flour to make a stiff dough. Cut and fry.—Mrs. E. S.

(Thanks for the additional recipes for potatoes. Copies of the bulletin "Tested Recipes for Michigan Potatoes" to which Mrs. E. S. refers are still available. Just send five cents to cover cost of mailing to this department.)—Martha Cole.

For Our Little Folks

STATE SECRETS

Most family trees up in this state, Are grafted buds from Sweden; But anglers say their bass and trout Must trace descent from Eden.



The pieces of this puzzle when correctly put together, make a map of the state which this verse describes. The star indicates the capitol. When you have solved the secret of which state this is, write me all you can about the state and its capitol.—Aunt Martha.

(The answer to last week's secret was Idaho and its capitol is Boise.)

STARS

All the stars are up in heaven, So the grown folks say; But, I caught as much as seven Only yesterday. Some I lost, fifteen or twenty, Couldn't hold them all. There are stars—white stars in plenty When the snow flakes fall.



Radiotrons are the Heart of the Receiving Set



Make sure that your new radio set is equipped with RCA Radiotrons throughout. Manufacturers of quality receiving sets specify RCA Radiotrons for testing, for initial equipment and for replacement. They are recognized by experts as the standard of performance.

RADIO CORPORATION OF AMERICA New York Chicago San Francisco

RCA Radiotron MADE BY THE MAKERS OF THE RADIOLA

Mention Michigan Farmer When Writing to Advertisers

Old Hickory SMOKED SALT FOR CURING. "The best meat we ever had" Image of a woman holding a plate of meat.

"Our meat is the best we ever had. The texture is firm, the color is good, the flavor is ideal and the taste is excellent. We recommend Old Hickory to anyone who wants a fine product for home curing." G. M. Shook, Lebanon, Kan.

Texture, color, flavor, TASTE! You get them all when you cure your meat with Edwards Old Hickory Smoked Salt. The genuine hickory wood smoke goes through and through the tissues of the fresh meat, preventing spoilage during cure and insuring preservation afterwards. The Old Hickory cure retains the natural, firm texture of the meat and gives it a rich, golden brown color without the use of a smoke house. No dripping grease; no waste; no dirt; no fire risk. Only the highest pur-

Old Hickory SMOKED SALT EDWARDS PROCESS PATENTS PENDING

Write for FREE BOOKLET No. 466

THE SMOKED SALT COMPANY, 446-466 Culvert Street, Cincinnati, O.

Send for this Valuable information

There's a handsome yearly profit in raising poultry. Thousands of farmers and rural residents are adding from \$500 to \$2000 a year to their incomes by knowing how to get the money to be made in the poultry business. You have the same wonderful opportunity to realize a fine profit by applying modern methods to poultry raising.

TODAY



OHIO Colony



See the Wonderful New Folding Hover An exclusive OHIO BROODER advantage. Permits maximum sunlight. Easy to clean and operate.

Many New Features

Let us show you why this marvelous brooder stove will help you raise every raisable chick and develop them into profit producing fowls. Let us show you how to save time and work caring for poultry—how to take advantage of high prices and profitable markets.

Don't Buy a Brooder Stove Until You've Seen the Ohio

Whether you raise small flocks or large ones, don't overlook this opportunity. Don't be satisfied with out-of-date brooders that cost as much to buy and have none of the Ohio's advantages. No matter whether you expect to buy a brooder stove now, or later, you ought to have this information handy. WRITE US TODAY.

Brooder Stoves

DEALERS: The demand for Ohio brooders is increasing fast. Live dealers wanted in all unoccupied territory. Complete range of sizes. Popular prices. Liberal dealer proposition. WRITE.

THE OHIO RAKE CO., 913 Albany St., DAYTON, OHIO

WOLVERINE S.C. WHITE LEGHORN 100% SAFE ARRIVAL GUARANTEED BLOOD WILL TELL MICHIGAN ACCREDITED



FOR WINTER EGG PRODUCERS

Get our Large Leghorns, the birds with large combs that produce the Large Chalk White Eggs

Send for Our 1928 Catalog

Tells all about our chicks and breeding stock EGG BRED SINCE 1910 For 18 years we have specialized in the production of S. C. White Leghorns, and breed no other variety. All our time, thought, and energy in selecting and mating has been devoted to our Leghorns. You are assured of very desirable stock.

100% LIVE ARRIVAL GUARANTEED WOLVERINE HATCHERY AND FARMS H. P. WIERSMA, Owner and Breeder, Dept. 3, Zeeland, Mich.

SUPERIOR BRED CHICKS

Superior Leghorns are those Michigan Accredited Leghorns that for years have demonstrated their ability to make good under actual farm conditions. Careful breeding on our modern breeding plant has resulted in remarkable egg production of this strain. Special Discount now. GET OUR BIG 64 PAGE CATALOG—IT'S FREE See in pictures our modern breeding and trapping plant 600 pullets in R. O. P. Record of 285 in R. O. P. last year. Every breeder inspected and passed by authorized state inspectors. Hanson, Tancred, and Barron bloodlines carefully blended in Superior Strains. SUPERIOR POULTRY FARMS, INC. Box 360, Zeeland, Michigan

VILLAGE VIEW Chicks direct from farm to YOU

Write today for complete information about these heavy producing White Leghorns and Barred Rocks. Carefully bred strains that are produced to make good on your farm. Free range flocks carefully mated for best results. FREE CATALOG GIVES LOW PRICES Before you order your chicks get this free catalog that tells all about these money makers. You will be interested in the high quality of our stock and pleased at our prices. A postcard brings the information. Write today. Village View Poultry Farm, R. 3, Box 2, Zeeland, Mich.

SILER'S STANDARD-BRED BLOOD-TESTED CHICKS

Make money with poultry, buy Siler's Standard-bred chicks. Every breeder BLOOD-TESTED for the last four years for bacillary WHITE DIARRHEA. All flocks and hatchery MICHIGAN ACCREDITED. We make a speciality of two breeds:

Barred Plymouth Rocks and S. C. White Leghorns Special discount on early orders. Write for free catalog and prices. SILER HATCHERY, Box A, DUNDEE, MICHIGAN

HOLLAND HATCHERY

It will pay you to investigate one of Michigan's oldest and best hatcheries. Twenty years' experience. Every chick hatched from rugged free range breeders officially accredited by inspectors, supervised by Michigan State Poultry Improvement Association. Large percentage of business to satisfied old customers. White Leghorns (English type and American), Barred Rocks, Anconas. Your Michigan 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 FREE catalog before placing your order. VAN APPELDORN BROS., R. 7C, Holland Hatchery & Poultry Farm, Holland, Michigan.

8 Varieties Record of Performance Male Matings

Our Pure Blood —SELECTED CHICKS —BIG EARLY ORDER —DISCOUNTS—15 VARIETIES

This year we introduce to you our Record of performance pedigree male matings up to 316 egg records direct from British Columbia and Ontario, Canada, including bloodtested, trapnested pedigree White Leghorn matings, 220 to 313 egg records. Winners of many prizes. Every bird standard culled. Get FREE circular of chicks, hatching eggs, and brooders before buying elsewhere. Broiler chicks 8c up.

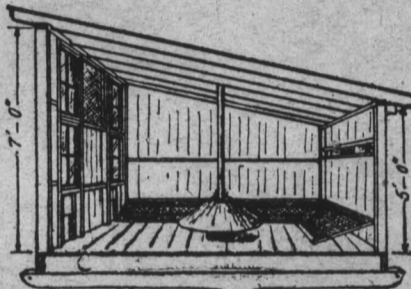
Beckman Hatchery, Box 57, Grand Rapids, Mich.

Poultry

ALL-MASH METHOD

THE all-mash ration popularized by the Wisconsin Experiment Station poultry experts is as follows: ground yellow corn 70 parts; winter wheat middlings 20 parts; meat scraps (50% protein) 5 parts; poultry bonemeal 4 parts; common salt 1 part. This mixture is placed before the chicks in hoppers so protected as to keep the chicks out of them. The chicks are also fed with milk and other customary supplements, such as green feed, cod liver oil, or sunlight.

This feeding method, which has become quite common in the last two or three years, saves much of the



A Perspective of a Portable Brooder House Which Can Be Converted Into a Laying House Later. This Was Designed by the Poultry Department of the Michigan State College. Plans and Bill of Material of This House May Be Obtained by Enclosing a Two Cent Stamp with Your Request to the Michigan Farmer.

labor involved in caring for chicks and helps to maintain healthy chicks because they are not picking up grain from the littered floor. A new and unique method is the raising of chicks on a screen of hardware cloth of one-fourth or even a half-inch mesh. This removes all danger of eating droppings, thus cutting down the spread of disease. It makes necessary the use of the all-mash feeding method.

The all-mash method also works out well with hens, disapproving completely the theory that chickens must scratch to get their exercise. In feeding either chicks or hens, the mixture should be granular rather than ground too fine. The all-mash method will not correct deficiencies in diet or management, but will allow all birds an equal chance and runts are the exception when it is practiced.

FOR BETTER EGG PRODUCTION

(Continued from page 73)

In addition to the work of the regular inspector, all records are carefully examined and checked in the office at East Lansing.

For every hen that lays 200 eggs during 52 consecutive weeks, that average 24 ounces to the dozen, after the third month, and is still free from standard disqualifications at the end of the laying year, the breeder will be issued a R. O. P. certificate. Before this certificate is issued, however, the hen must be handled and approved by an extension specialist from the College. A copper non-transferable band is then placed on her leg and the serial letter and farm number indelibly tattooed in her wing. On this band are the abbreviations of the words, "Record of Performance Approved Hen."

R. O. P. cockerels are birds individually pedigreed from R. O. P. hens that are mated to R. O. P. males. All pedigree work is done under the supervision of the inspector and other authorized representatives of the College.

The presence of aluminum leg or wing bands bearing the letters R. O. P. shows that the bird has been under R. O. P. supervision, but not that it is a qualified R. O. P. bird. The

Loosen Up Chest Colds

Just Rub Away Danger

When your lungs are congested and you have a hacking cough watch out! Rub Musterole on the sore spot. There's nothing better for quick, safe relief. Musterole penetrates the skin bringing a soothing, cooling sensation and welcome relief.



Recommended by doctors and nurses, Musterole relieves cold in chest, sore throat, bronchitis, aches and pains in the back and joints. Keep Musterole handy. To Mothers: Musterole is also made in milder form for babies and small children. Ask for Children's Musterole.



BETTER THAN A MUSTARD PLASTER

MEDICINAL HERBS AND ROOTS

Used and recommended for the treatment of scores of ills and diseases. We have the particular root or herb that has been recommended to you—all finest quality and absolutely fresh. We are known to a million customers as America's largest growers and importers of medicinal Herbs and Roots.

Send for complete list of more than 1000 kinds and varieties. Write for full particulars. Ask for a copy of our

FREE 64-page illustrated HERBALIST 1928 almanac

Filled with up-to-date interesting and valuable facts. Our supply of these books is limited. Send today. Address

INDIANA BOTANIC GARDENS BOX 5 HAMMOND, IND.

DOWN'S BABY CHICKS

DOWN'S LEGHORNS LEAD STATE CONTEST

Last report (Dec. 14) shows our leg-horns leading Michigan International Egg Laying Contest. 1,000 pullets now being trap-nested in R. O. P. To insure delivery when wanted—order your Michigan Accredited chicks NOW! Free circular and prices on request.

DOWN'S POULTRY FARM ROMEO, MICH. R. F. D. No. 1

DOWN'S WHITE LEGHORNS

Incubators

and Brooders 1928 Champion Belle City

We celebrate our 28th year by bringing out a line of new type incubators, with six of the greatest improvements made in 50 years. Belcite walls, ten times stronger than wood. New triple-walled doors which forever fit. Copper heating tank, self-regulating safety lamp. New type egg tray in which eggs are instantly turned, deep nursery, egg tester. Send for my free book, "The New Day in Hatching." It shows the new inventions, the incubators, 80 to 2400 Egg sizes. Hot-Water, Oil, and Coal Brooders. 80 to 1000 chick sizes—as low as \$6.95. You cannot afford to continue in old ways. Hatch every fertile egg. Write me today. J. V. Rohan, Pres. Belle City Incubator Co., Box 14, Racine, Wis.

FREE Brooder Book

Tells how to raise more chicks and make more money. Gives full details of famous American Brooder to which leading breeders on Pacific Coast, including holders of world's laying records, attribute phenomenal success. Automatic heat regulation. Self ventilation. Direct oil burner. Saves time, money and fuel. Breeders say American Brooder is greatest value on market. Write today for FREE Catalog. Coal, gas, oil and electric models \$7.50 to \$70. Dealers—write for big Sales Opportunity.

American Brooder Corporation Alhambra, Cal., or 39 Barclay St., New York, Dept. 812

WHEN NORTH WINDS BLOW

Come to Eastern Oklahoma—the new, best Southland.

Short, mild winters, long growing season. Fertile soil, ample rainfall. Diversified farming—fruit—pecans—corn—wheat—oats—alfalfa (5 cuttings per season)—potatoes (marketed in June)—poultry—hogs—dairying. Good roads, excellent markets, cheap fuel, game, fish.

A rapidly developing country of virgin fertility with an all-year climate that makes life worth living.

We have for sale improved farms of sizes, prices and terms to fit all purses. For free descriptive literature and list of special bargains, fill out and mail the following coupon today.

COUPON National Colonization Co.
Rm. 122, No. 14 E. 3rd St.
Tulsa, Okla.

GENTLEMEN: Please send me, at once, free literature and price list of your Eastern Oklahoma farm bargains.

Name

R.F.D..... P.O.....

State



100 Lbs. Net—Frozen large round Herring, \$6.00; dressed Herring, \$6.50; round Pickerel, \$7.50; headless Pickerel, \$8.50; yellow Pike, \$12.50; Salmon \$12.50. Remit with order. Package charge 30c per 100 lbs. We charge 1/4c per lb. more in less than 100-lb. lots. Send for price list of all varieties fish. **CONSUMERS FISH CO.** Green Bay, Wis.

New Cut Prices

Send for this 1928 Incubator and Brooder Book—see the dollars our New Cut Prices save you. Two big well-known firms—Wisconsin and Ironclad—have consolidated to cut costs and sell at lower prices. Don't buy until you get this money saving book. It incites 14 Brooders to select from. **WRITE FOR CATALOG TODAY!** Tells how to get eggs in winter; how to stock chick houses. 30 day trial offer. **WISCONSIN-IRONCLAD COMPANY** Box 229 Racine, Wis.

BABY CHICKS WHITE LEGHORNS ONLY SHIPPED C.O.D. ANYWHERE. **LOW PREPAID PRICES**. Egg contest winners for years. Guaranteed and insured. Also cockerels, pullets, hens. Catalog and special price bulletin free. **GEORGE B. FERRIS, 934 UNION, GRAND RAPIDS, MICH.**

Accredited Chicks C.O.D.

See your chicks before you pay for them. Especially selected, accredited stock. **BEAUTIFUL CATALOG FREE.** Send for details, prices and catalog. Write today. Our chicks are highest quality. **South Kenton Poultry Farm, Box 11-A, Kenton, Ohio.**

64 BREEDS Most Profitable pure bred ducks, geese, turkeys, Fowls, eggs, chicks, incubators at low prices. 35th year. Largest plant. Valuable 100-page book and catalog free. **R. F. Neubert Co., Box 514 Mankato, Minn.**

BABY CHICKS

From Michigan Accredited flocks. Three leading breeds. B. P. Rocks, R. I. Reds, and S. C. White Leghorns. Write for 1928 catalog, it tells all about our chicks. Place your orders early. 100% live delivery guaranteed. **CARLETON HATCHERY, Carleton, Michigan**

CHICKS AND DUX C. O. D. Fine pure-bred prices to fit your pocketbook. Pedigreed males and selected females make chicks of finest quality. Free poultry book and catalog. Get details of our liberal C. O. D. offer. **COOPERATIVE BREEDING & HATCHING CO., Box 125, Tiro, O.**

CHICKS from Michigan Accredited Flocks

FREE! Get our big catalog before you buy! It tells why Knoll's Michigan Accredited poultry pay you better. Large, heavy, carefully selected birds. Good winter layers.

BARGAINS in White Leghorn, Heavy Type Brown Leghorn, Barred Rock Chicks. 100% Live delivery guaranteed. Strong, healthy chicks that live and grow.

BIG CASH DISCOUNT if you order this month—10% deposit books your order—for delivery when wanted. Shipped C. O. D. Pay balance on arrival. See chicks before you pay. **Write today.** Get ready now for bigger profits next season. **Knoll's Hatchery and Poultry Farm** R. R. 12, Box M.F. Holland, Mich.

qualified birds both male and female can always be identified by the copper R. O. P. legband and the tattooed wing.

Michigan is one of the pioneer states in R. O. P. work, there being but four or five other states that have started anything of this nature. At present, there is little, if any, uniformity of R. O. P. standards. Thus far, each state has set its own standards. None of which agree with each other or with those established by Canadian breeders who are farther along with R. O. P. work than we are in the U. S. Michigan R. O. P. standards both for number of eggs and weight requirements are higher than those of other Associations.

Our first year of R. O. P. work in Michigan ended November 30, 1927. During the year, 6,900 hens were entered. As the work of checking records and approving birds is not yet completed, we cannot state the exact number that will qualify for R. O. P. certificates. It appears, however, that about 700 or approximately 10 per cent of all birds trapped will qualify.

Beginning with the 1928 hatching season, Michigan certified chicks can be sold only by hatcherymen who have all of their flocks of any particular breed headed by R. O. P. males. Owing to the limited number of such males, only a relatively small number of the hatcheries will be able to certify this coming year. It is the ultimate aim of the R. O. P. breeder to produce enough R. O. P. males to enable him to eventually certify one or all of the breeders of chicks that he offers for sale. This especially, in the case of the larger hatcheries, will take considerable time since even with the use of trapnets the producing of good stock in large quantities requires years of careful breeding.

That the first year of Michigan R. O. P. work has proven popular is shown by the fact that the number of members has increased from 20 with a total of 6,900 birds the first year to 28 members with approximately 11,000 birds for the second year, 1928.

At the present time, Michigan R. O. P. for poultry is open to any breeder who wishes to enter. The only requirement being that after this coming year, only pullets or hens from certified flocks or their equivalent can be entered in R. O. P. That means simply this, that anyone not already entered in R. O. P. and in a position to produce such birds, must procure certified stock from some hatchery or breeder eligible to produce the same.

In bringing this brief discussion of Michigan R. O. P. work to a close, I wish to say that as inspector, it is my privilege to be in close touch with the R. O. P. breeders and the work they are undertaking to do. I am very optimistic concerning the future success of the work and feel that these pioneer R. O. P. breeders, by the production of certified chicks and better breeding stock, are in unique position to render an invaluable service to the poultry industry of Michigan.

RESULTS FROM POULTRY HOUSE LIGHTS

LIGHTS have been used on poultry flocks long enough so that definite results may be expected. Management and good stock are so closely linked with the results, however, that success with lights will vary with the skill of the individual poultryman.

Results of studies in several states have brought these definite conclusions:

1. Lights will increase the winter and yearly egg production of hens and pullets. They should not be used on the breeding flock.
2. Breeding hens can be hastened back into production by a limited use of lights from January 15 to March without any apparent effect on the hatchability of eggs.

3. It is possible, with lights, to carry early hatched pullets through their first production period with much less molting than when lights are not used.

4. Fall laying can be kept up by using lights from September 1 to November 1. If birds are to be used as breeders, discontinue lights abruptly and throw the flock into molt to give them a rest for the coming hatching season.

5. Properly installed, lights will materially increase the labor income from the birds for the year.

6. Slow maturing pullets will mature more rapidly under lights. There is danger in bringing the birds into production before they are properly matured.

POULTRY PRODUCTION EASILY ADJUSTED

THAT it is far easier to adjust poultry production to demand than it is to reduce cattle or hog production is evidenced by a statement

from the Bureau of Agricultural Economics which shows that early in the past year, egg production was unusually heavy, and holdings of eggs in June, July, and August established new high levels for those months. Nevertheless the total production of eggs during 1927 was not much greater than the 1926 output.

It is indicated that while the poultry keepers started out with a larger number of hens than the year before, they were not slow to reduce their laying flocks when they realized that low unprofitable prices were due to over production.

STUCK

Smart Salesman to dumb office boy: "If you can ask me a question that I can't answer, I'll give you a quarter."

Office boy, pronto: "All right, sir. Can you tell me where music goes after it is played?"

Some fish make nests in the sand in which to lay eggs.

SILVER WARD SELECT CHICKS

You can save money by ordering your Silver Ward Michigan Accredited Chicks now. We give a special discount that means a substantial saving in the cost of your chicks. Furthermore you are sure of your chicks exactly when you want them. The big free catalog gives complete details.

GET THESE FACTS

You owe it to yourself to get all the facts as to sources of well bred stock. It means your success or failure. Silver Ward has long been recognized as one of the leaders. Get the catalog. It's free and it tells all about us. Michigan Accredited Silver Ward Chicks are bred from foundations of such blood lines as Barron and Tancred Leghorns, Sheppards, Anconas, etc. They are fine chicks, moderately priced. Try some this year. The catalog is free.

SILVER WARD HATCHERY
Box 29, Zeeland, Mich.

This catalog is yours for the asking.

HIGHLAND LEGHORNS

Every breeder carefully selected for size, type, and egg production. Mated to males of 200 to 300 egg pedigree ancestry.

CHICKS SHIPPED C.O.D.

See your chicks before you pay for them. We know you will be pleased and we are willing to take all the risk. This assures you of 100% live delivery and shipment exactly when you specify.

SPECIAL DISCOUNT NOW!

On all orders for chicks booked this month we give a big discount. Get our new valuable catalog which gives complete details. Write for copy today.

Highland Poultry Farm, R. 9, Box C, Holland, Mich.

PROFIT PRODUCING CHICKS

B.P. ROCKS Michigan Accredited Chicks that are bred from proven blood lines. Every breeder wears a sealed leg band indicating official approval by authorized state inspectors. Immediate shipment.

LEGHORNS **R.I. REDS**

BIG DISCOUNT NOW! PAY \$1.00 DOWN—BALANCE C. O. D.

Pay for your chicks when you get them. Send \$1.00 and we will ship C. O. D. Get our big new catalog. It is free. It will help you. Your choice of three profitable breeds. 100% live delivery guaranteed.

BRUMMER FREDRICKSON POULTRY FARM, Box 20, Holland, Mich.

WOLF SELECTED CHICKS

CHICKS C. O. D. SEND ONLY \$1.00

Our chicks are from leg-banded stock selected by expert poultryman. You can feel safe for you know every chick is up to highest standard for egg production and breed type. Get our special wholesale price on brooder stoves when bought with chicks. **SEND FOR OUR BIG CATALOG.** It tells all about our pedigree males and special pen matings. Also gives details about our high producing utility birds. Valuable book free with each order. Prices reasonable. Write today.

WOLF HATCHING & BREEDING CO. BOX 42 GIBSONBURG, OHIO

BUY RECORD OF PERFORMANCE

7 Varieties of Male Matings Up to 316 Egg Record.

Also 15 varieties of purebred chicks from selected flocks, including direct Morgan-Tancred 313-egg record, blood-tested, trapnetted White Leghorns. Chicks 9c up. **FREE** catalog gives big discounts on chicks, hatching eggs, brooders. Don't fail to try our high production quality chicks! We guarantee them to satisfy! **ORDER NOW!**

LAWRENCE HATCHERY Grand Rapids, Mich.

DUNDEE MICHIGAN ACCREDITED CHICKS

STOCK ALL BLOOD-TESTED FOR WHITE DIARRHEA FOR THE PAST FOUR YEARS.

You can save money by ordering Dundee Pure-Bred, Mich. Accredited and Blood-Tested Chicks. We hatch B. P. Rocks, R. I. Reds, and S. C. White Leghorns. Write for 1928 Catalog giving all details of our matings and full directions on how to raise baby chicks for greater profits. We guarantee 100% live delivery.

DUNDEE HATCHERY & POULTRY FARMS — DUNDEE, MICHIGAN

Amazing New-Type Brooder House Pays for Itself Quick, or No Cost

No more gambling with poultry profits! No more heart-breaking chick losses! For now an old, well-known manufacturer makes the most startling offer in poultry history—a surprising new development in brooder houses, backed up by a complete poultry raising plan so remarkable that hundreds have already received their entire investment back in 2 to 3 months. There are no "strings" or "red tape." Absolute money-back guarantee protects you. Make \$500 to \$2,000 a year extra income from poultry easy as A-B-C. Liberal time payment plan. Write today and get all the amazing details without obligation.

MARTIN STEEL PROD. CO. (Est. 1901) DEPT. 8, MANSFIELD, OHIO.

"I paid for brooder house, chicks, feed and heat in 3 months and still cleared \$164 cash." **U. F. Anderson, Ind.**



Winter Sports

Skating, skiing, coasting, hunting, ice fishing—just think of the many outdoor sports there are for winter days. It is this kind of fun that brings health, glowing cheeks and ravenous appetites. Don't let yourself get too old to enjoy them. To make them most attractive, and easier for you to get away from around the warm fire, you need only warm outdoor clothing and the right equipment to enjoy every spare minute that you can in these outdoor pastimes.

Your "Farm Service" Hardware Man is ready to help you enjoy them. He has skates, sleds, toboggans, skis and sports goods of many different kinds that will just suit you. And for hunting and fishing you know that the "tag" store sporting goods department is one of the best places to get guns, ammunition and tackle. You will be surprised how much this outdoor fun will be worth to you both physically and mentally, and we suggest that you go to your nearest "tag" store tomorrow and get what you need to make the most of your favorite winter sport.



Your Farm Service HARDWARE STORES

OUR BOYS AND GIRLS

Helped by Christmas Chest Merry Circlers Spread Happiness

WE are enclosing a brief summary of the three families we were able to take care of through the kindness of the children and their parents in sending their gifts to the hospital.

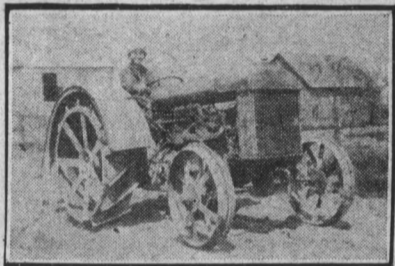
Thanking you for your kindness,
Yours truly,
A. M. Creagh,
Children's Hospital of Mich.
S. S. Dept.

Italian family with nine children—
Tony 19, Mary 16, Sam 14, Jennie 12,
James 10, Mike 7, Santa 5, Josie 4,
Anthony 1.

Quite a lot of the clothes were taken to this family who were unable to attend school through lack of clothing.

The older children are unable to obtain work and the father earns thirty dollars a week which is not sufficient to support his family.

The children are poorly nourished.



Norma Gager Has Driven a Tractor Since Ten Years Old

One child, James, has heart disease and the mother is unable to provide the food the child should have.

The house was cold and bare and the children were running around with hardly anything on, just a few rags. Some of them are without shoes.

The gift of clothing was very much appreciated by this family.

Italian family with three children—
Dorothy 8, Mary 5, Helen 3½.

This home is very clean and neat but very poorly furnished. Husband has been out of work for five months and is very discouraged. All three children are ill with measles and had colds and are being attended by the city physician.

Their Christmas dinner was a little piece of bacon, for Santa Claus had forgotten to come.

With the money the children had donated we were able to buy them a nice New Year's dinner, also toys and some clothing.

Please thank the children and tell them how much their gifts were appreciated.

Frances B. had just been sent home from the hospital. The doctor in the Cardiac Clinic requested that weekly calls be made for a month. Francis' heart had been badly damaged. A much needed tonsillectomy had been delayed until rheumatic pains had developed. Now much rest was indicated and the nurse must see to it that the orders were enforced.

When the nurse arrived, she found five other small children and, yes, the mother was expecting another in about six weeks. She loved children, yes, but no money, Missus. Husband only working two, and sometimes three days a week. Husband sick in bed now, she exclaimed in broken English. The nurse followed the mother to the little bedroom, and found the man with an elevated temperature and high pulse rate with symptoms of respiratory infection. Could the Missus call the city doctor. She couldn't make them understand over the telephone.

Two days after Christmas, the family was again visited. Oh, yes, three pairs of shoes and stockings had been sent for which the mother was very grateful. Did you receive a basket too, Mrs. B? No, Missus, only the shoes and stockings. What did you have for Christmas dinner, Mrs. B.? Oh, tomato soup and bread, Missus, no money for extras.

The nurse noticed Frances' shoes were thin and worn and her little feet cold. Chilling was very bad for her rheumatic pains and she must have shoes with heavier soles. With the consent of her superintendent, the nurse, the following day made up a belated Christmas basket. In addition, shoes for Frances and a few left over toys from the Church were added.

The burden of economic pressure was heavy. Could the Missus provide a few of the necessary things for the expected baby? Whereupon the nurse wrote down full directions for calling the city physician and visiting nurse

association. She explained to the mother that she would bring with her a sufficient supply when she received word that the baby had come. The mother appeared relieved, and said: "Excuse me, Missus." When she returned she held in her hand a beautifully crocheted boudoir cap made by her own hands. The nurse said: "No, Mrs. B., you keep it for yourself." When she saw it would make her feel hurt she accepted the gift.

As an ambassador to the people who so well recognize their responsibility to the poor, the visiting nurse derived much pleasure in finding places for their gifts. She wished the donor too could have seen the child's happy expression.

This story was written by the nurse who distributed the clothes.

They were very grateful.

OUR LETTER BOX

Dear Uncle Frank:

I notice that there are quite a few discussions about birds and flowers. I love birds and flowers, and when I find a flower I don't know the name of I take it apart and locate the different parts. Then I look over the names and descriptions in my book of flowers until I find the right name. I like to study birds and bees, too. I can sit for the longest time watching the bees bring in honey. They seem like soldiers each knowing his duty. I can imitate the call of the robin and the whippoorwill pretty well.—A Lover of Nature.

I like lovers of nature and I wonder at one who takes no interest in it. Your method of looking up flowers is good.

Dear Uncle Frank:

A topic that has been discussed off and on in Our Page is education, and its value to the one who possesses it. Now it behooves me that the person who is desirous of acquiring an education ought to have an idea what education means and how to use it. I've read various compositions and definitions of it. To some it means to think clearly and to draw conclusions. A certain paper defined it to mean the establishment of good habits. Dr. Butler, of Columbia University, said a college education means the learning of experiences which others have gone through—to learn in a few months what it took our predecessors years to find out.

These explanations are relevant in my opinion. To be educated surely means to think a question, a lesson, a principle and anything else, if it isn't an abstruse mystery, to a conclusion; to read good books and understand how others think and act; to learn to work efficiently and fast; to do our duties well and to love our work. To establish good habits means to me to learn to keep our bodies and minds healthy—to have our organs work in harmony; to endeavor to help others and learn to sacrifice; to see opportunities of elevating ourselves and others, and also to know what habits are good and to cultivate them.

Dr. Butler's definitions of this subject is I presume understood. Education to my way of thinking does not end when we have finished our studies at school, but continues on through life; learning lessons from our work and from our fellowmen; to be a student rather than a teacher, and to know how to use the lessons that we learn.

If these virtues are contributory to education, it then seems there are many objects that a boy or girl might aim to attain. Would other M. C.'s give their opinions and conclusions on it?—Michigan Boy.

I am sure the M. C.'s will be interested in your views of education. Education equips one to get the most good out of life.

Dear Uncle and Cousins:

I was the happiest girl in all Michigan several days ago when I received my pin and membership card. I wore it to school and the children all looked at it, then I sure was glad I was an M. C.

Uncle Frank, we had a party at our

school house and we had lots of fun. We had all kinds of contests. The best one was the cracker-eating contest. About fourteen boys were in it. They were all given two crackers which they were to eat and then whistle. My brother won, but I guess it was because he dropped half of his cracker on the floor. He got an all-day sucker as a prize.

Another contest was the suitcase race. One line of men and one of women were selected and the leaders were given a suitcase which they were to open and put on all the clothes that were in it. Some of the women were stout and could hardly get on the tight sweaters and collars.—Anna Goossen.

You had an interesting party. I don't suppose these fellows whistled for more crackers. That dressing race must have been funny. I presume some of the contestants got fits, while others didn't.

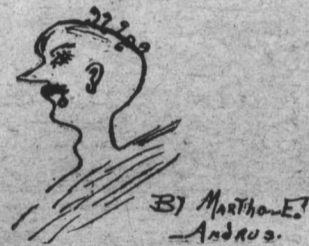
Dear Uncle Frank:

I have a cousin nineteen years of age in the Convalescent Hospital in Ann Arbor. He has been there eight weeks next Tuesday. He was in an auto accident with the result that he had one leg broken, nose broken, chin driven backward, cheek bone broken, and jaws dislocated. He is getting along fine.

My grandpa has taken the M. F. for over thirty years. You must know he likes it or he wouldn't take it. I have read the children's page ever since I could read and enjoy it very much. I would like very much to be a cousin and niece.—Marion J. Leshner.

Your cousin was considerably damaged in the accident. We hope grand-

UNKLE FRANK



"Ain't He Cute?"

pa will enjoy the M. F. for thirty years more. You can become an M. C. by taking part in the contests—that's the only way.

MYSTERY CONTEST

WHEN you read the following "ad" you will know it needs fixing up. Here is the "ad":

"WANTED:—An old table by a lady with mahogany finish and five legs."

Write corrected ad with a lead pencil.

Put your name and address in upper left hand corner of paper.

(Continued on page 87)



The Avery Steel Separator is ahead of the times—in design—in quality—in the work it does and the way it does it. It set a record for sales last year never equaled by any thresher company in the first year's production of a new model. Learn why its perfect-spaced cylinder shells better with less concave teeth—why the spreading comb beater and combination adjustable straw rack handles straw faster and saves better—why its all-roller bearing drive without a crankshaft makes it easier to handle and lighter to pull.

Write for Catalog

Learn about the machine that broke sales and performance records—get all the facts and figures; also get tractor catalog on Avery Tractors.

AVERY
POWER MACHINERY CO.
Dept. 59 Peoria, Illinois

ENGINES

Send for my new chart... "How to Select Your Engine." Avoid mistakes and disappointments by getting proper SIZE and H-P. for your work. My 58 years engine building experience is yours for the asking.

WITTE SUPER ENGINES

50 new features now place the WITTE Engine head and shoulders above all others. Alloy steel construction... All fuel carburetor uses cheap fuels. All parts interchangeable. Removable die-cast bearings. Hot spot cylinder head. Center fire. WICO Magneto. Send name at once. ED. H. WITTE, Pres.

WITTE ENGINE WORKS
2191 Oakland Ave., Kansas City, Mo.
2191 Liberty Ave., Pittsburgh, Pa.

KEROSENE GASOLINE GAS OIL DISTILLATE OR GAS

Better Berry Plants from Baldwin
Give higher yields of sweeter-flavored fruit. Supply your own table with strawberries and other luscious fruits throughout the season. Grow for market—it pays well. Start right with Baldwin quality plants, bred by experts. A complete list of berry plants as well as
Shrubs, Roses, Fruit Trees are shown true to life in our beautiful 1928 catalog, printed in color, for you. Send for your copy today—it is free.

BALDWIN
D. A. D. Baldwin Nursery Co.
Box 50 Bridgman, Mich.
Successors to Baldwin-Whitten-Ackerman Nursery

Free

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

20 POWER USES FOR Your Ford
Runs directly off crank shaft. No side pull on bearings. Oil tight case; no rattle; clutch disconnects when driving. Write for Special Offer!
Powerful, economical—from wood saw to churn. Makes car easy to crank. Fits any model; no holes to drill; attach in few minutes; does not affect steering. Will not overheat.
FREE Send name today for free literature on this latest, guaranteed improved power. Try it 15 days on your Ford at our risk.
E-Z POWER MFG. CO., Box 85 Atchison, Kansas

Men and Machines

Our Weekly Sermon—By N. A. McCune

THE sabbath was made for man," said Jesus, "not man for the sabbath." Can we write a revised version of that? The movies are made for children, not children for the movies. Automobiles are made for people, not people for automobiles. Recreation is intended for young people, not young people for recreation. Golf was made for men, not men for golf. When one is reminded that ten million people in the United States visit the movies each day, and leave three million dollars behind them, to receive "a torrent of thrills," "inside stuff from filmland," and to hear "tum-tum music that beats with your heart-beat, entices a faster pulse, that keeps your feet tapping," and tons more of like rot, one is not so certain whether the movies were made for folks, or folks for the movies. To see some men play golf, carefully scheduling their week-ends and Sundays so as to get in the fullest possible amount of time with their favorable sport, is to conclude that they were made for the game, as well as the game for them. When you read the total number of children killed by the automobile each year by drivers drunk and drivers sober, it looks as though the car has become a huge juggernaut, which requires its quota of human sacrifices each year.

It is so easy to reverse the meaning of things, to make means into ends, to make the holy into the horrible, to change liberty into license, the lawful into the lawless. Robert Owen once came to see Emerson. He declared that the world's troubles were mainly due to "money difficulties, disappointment in love, intemperance, and anxiety for offspring." Said Emerson, "you are too external with your evils, Mr. Owen. Let me give you some real mischiefs: living for show, losing the whole in the particular, indulgence of vital-powers in trivialities."

Of course, one does not want to be unreasonable in his attitude toward Sunday. That would be the same mistake the pharisees made. On the other hand, it has been well asked whether religion can remain a force of righteousness if Sunday as rest-day and worship-day goes. The institution rests on a solid foundation of biology. It has often been remarked that people who habitually violate the spirit of Sunday do not prosper in the long run. Unless principles change, that will continue to be true.

SUNDAY SCHOOL LESSON FOR JANUARY 22nd

SUBJECT—Jesus Teaches the Higher Law. Mark 2:18-22; 3:1-6.

MYSTERY CONTEST

(Continued from page 86)

If you are a Merry Circler, put M. C. after your name.

Write your age and grade in school in lower right hand corner of paper. Address your contest envelope to Uncle Frank, Michigan Farmer, Detroit. Contest closes January 27th, and ten prizes will be given including fountain pens, loose leaf note books and pocket knives.

READ AND WINNERS

The following were the fortunate ones in our last Read and Win Contest.

Fountain Pens
Eva Gurd, R. 2, Lansing, Mich.
Roy Weerstra, R. 6, Muskegon.

Note Books
Helen Kneffel, R. 2, New Haven.
Florence McKenney, Decker, Mich.
Ruth Newell, Burnips, Mich.

Knives
Marie Mootman, R. 2, Jenison, Mich.
William Nelson, R. 1, Filion, Mich.
Harvey Frey, R. 1, Box 37, Mio.
Raymond Ludlow, R. 5, Albion.
Esther Kropschot, R. 2, Litchfield.

The biggest snake known is a python of the eastern tropics.

More Wheat with Less Labor

by early spring top-dressing with Calcium Nitrate. Guaranteed to contain 15% of Nitrogen (18.2% Ammonia) combined with 28% of Lime. It is the most easily soluble of all nitrogen fertilizers. Contains both nitrogen and lime—a ton has more lime than 1,000 pounds of ground limestone. By its use, the soil is kept sweet.

Calcium Nitrate is used for top-dressing winter wheat, especially where it was late sown or suffers from winter injury. It is especially valuable on grasslands, in orchards and for all vegetables, particularly for the side-dressing along the row of growing crops.

Calcium Nitrate (Nitrate of Lime)

Apply Calcium Nitrate early to make your wheat stool out strongly, and yield abundantly

Send for booklets on this and other new nitrogen fertilizers, mentioning this paper.

Ask your Experiment Station or County Agent for information.

Sold by dealers. If yours cannot supply you, send us his name and address.

SYNTHETIC NITROGEN PRODUCTS CORPORATION
285 Madison Avenue, New York City
"It's Nitrogen from the Air"



70 CORDS in 10 HOURS
In just five minutes a Diamond Wood Saw Unit can be attached to your Fordson, 10-20 International, or John Deere Tractor and you have a complete rig for sawing any sized material from sticks to logs. A heavy way to set your tractor to money-making during the winter months. Saw for yourself and your neighbors! "70 cords in 10 hours"—this is one user's record. The Diamond Wood Saw Unit has no rival for speed and ease of operation. Write for illustrated circular today! Ask about our line of Feed Grinders and Corn Shellers! **NEW WINONA MFG. CO., 910 Fifth St., Winona, Minn.**

DIAMOND WOODSAW UNIT

TRY a Michigan Farmer Classified Liner. It will help you dispose of your real estate or some miscellaneous article. It will help you find that extra help you may need. Michigan Farmer Liners get big results, and cost little.

SAVE 60% from binder twine. All sizes including hay fork ropes. Wonderful saving. Send for Free Booklet, "Rope Making On The Farm." **NEW ERA ROPE MACHINE CO., Minneapolis, Minn.**

600 Mile Radio Works without any batteries. **300,000 people already use them.** \$2.95
Write for full description and copies of letters giving lists of stations heard by users. **600 MILE RADIO CO., WICHITA, KANSAS**

FREE SAMPLES CLOVER Don't buy Farm Seeds of any kind until you see our samples. We specialize on high-quality, tested Clover, Timothy, Alfalfa, Sweet Clover and Alsike; guaranteed the best, sold subject to your approval and state or government test or money back. **52-page Catalog. FREE MONEY** American Field Seed Co. Dept. 331 Chicago, Ill.

Try a Michigan Farmer Liner

Maloney's
MONTMORENCY
The Best Sour Cherry

As long as pies are popular, there will be a demand for this heavy-yielding sour cherry. The Trees are strong, clean growers, little affected by wet weather. The fruit ships well, looks well and sells well—a sure-fire money-maker. We have fine one and two-year-old Trees, guaranteed true to name.

Fruit Trees, Berries, Roses Shrubs, Shade Trees, Evergreens
Send for Free Nursery Book

It shows Apples, Peaches, Plums, Pears, Cherries, Berries, Grapes and Ornamentals in natural colors. It lists a full line of choice material for home and orchard planting, all grown in our own 400-acre Nurseries. Write for your copy today. Special discounts allowed on early orders.

Maloney Bros. Nursery Co., Inc.
83 Main Street Danville, N. Y.
Growers for 44 Yrs.

GREATEST VALUES in 1928
FACTORY TO YOU saves 20% to 33%
We save you money or no sale
New Team Harness \$23.64
Learn how our Honest quality direct to you earn big savings. 1928 catalog full of big bargains on harness—saddles and supplies is ready.
MIDWAY HARNESS CO.
1967 University Ave. St. Paul, Minn.
GET FREE CATALOG



Mrs. Eva Travis, Kalamazoo County, Mich.

More Evidence

HERE'S what Mrs. Eva Travis, of Kalamazoo County, Mich., thinks about Purina Cow Chow.

"In 1924 we ran short of grain," says Mrs. Travis. "A high-powered salesman came along, and he sold me some Purina, but it was the best thing he ever did. We have used Cow Chow ever since then. We led our cow testing association in 1924 and 1925 and only lost in 1926 by three tenths of a pound."

If it pays your neighbors to feed Purina Cow Chow, it'll pay you too. Order it from the store with the checkerboard sign.

Let Bulky-Las work with Cow Chow in increasing your milk production.

PURINA MILLS, 855 Gratiot Street, St. Louis, Mo.
Eight Busy Mills Located for Service

Write us for a Purina Cow Booklet—free

PURINA CHOWS

24% PROTEIN COW CHOW
34% PROTEIN COW CHOW
CALF CHOW BULKY-LAS PIG CHOW

IN CHECKERBOARD BAGS

BREEDERS' DIRECTORY

Change Copy or Cancellations must reach us Twelve Days before date of publication.

CATTLE

GUERNSEYS either sex, whose sires' dams have official records of 15-109.10 milk, 778.80 fat, 19,460.50 milk, 909.05 fat. T. V. HICKS, Battle Creek, Mich., R. 1.

Guernsey Dairy Heifer Calves, practically pure bred \$25.00 each. We ship C. O. D. Write L. Terwilliger, Wauwatosa, Wis.

For Sale —Reg. Guernsey cows and a few bull calves, sire by Imp. Coro Honor. JOHN EBELS, Holland, Mich., R. 2.

FOR practically pure-bred GUERNSEY or HOLSTEIN calves, from heavy, rich milkers, write EDGEWOOD DAIRY FARMS, Whitewater, Wis.

ORMSBY—BESS BURKE—FOBES

We are now in position to offer bulls of the popular Ormsby-Bess Burke-Fobes combination of blood lines. These calves are sired by Marathon Bess Burke 32nd, a son of the famous cow Wisconsin Fobes 6th, or Sir Bess Ormsby Fobes 50th, a son of her illustrious full brother, Sir Bess Ormsby Fobes. These two young sires are in service in the Traverse City State Hospital herd and their calves show excellent quality.

MICHIGAN STATE HERDS—Bred for Production

Bureau of Animal Industry
Department C,
Lansing, Michigan



SERVICEABLE AGE

REGISTERED HOLSTEIN
Bull Calves at prices the owner of a small herd can afford to pay. The sire of many of these calves is a Son of the highest record (30 lb.) two-year-old daughter of Creator. His sire is King Segis Alcartra Prilly, an undefeated Show bull with 70 A. R. daughters. Others sired by a 5 times 1200 lb. Champion Bull, the famous K. P. O. F. breeding.
Bred cows and heifers served by these sires are available for foundation stock.

RED ROSE FARMS DAIRY
Northville, Michigan
Telephone: 344
Reference: Northville State Savings Bank

We Have Two coming yearling Hereford bulls for sale at farmer's prices, of Fairfax and Bonnie Bray breeding. W. H. KNEALE & SONS, Ionia, Mich.

For Sale Choice Jersey Bulls, grandsons of Sybil's Gamboge of Whitehall. SMITH & PARKER, Howell, Mich. R. No. 4.

BUTTER BRED JERSEY BULLS FOR SALE
CRYSTAL SPRING STOCK FARM,
Silver Creek, Allegan County, Michigan

For Sale Registered Jersey Bull
16 months old. Albert Ainsworth, Carsonville, Mich.

Stockers & Feeders

Calves, Yearl & Two's; Hereford Steers & Heifers. Beef Type, dark reds, good grass flesh, most all bunches dehorned, each bunch even in size and show good breeding. Choice Herefords are usually market toppers when finished. Few bunches T. B. tested. Will sell your choice from any bunch. State number and weight you prefer 450 to 1000 lbs.

Van D. Baldwin, Eldon, Wapello Co., Iowa.

"Claradale Milking Shorthorns"

Young bulls and bred heifers, priced for quick sale. Duchess breeding, high milk and test records. Herd under state and Federal supervision. Sixty days rest allowed. Your success is our success. F. W. JOHNSON & SONS, Box 26, Custer, Mich.

Milking Shorthorns Central Mich. Shorthorn Breeders Assoc. offers young bulls, heifers, and cows, fresh and coming fresh, priced right. Oscar Skinner, Sec., Gowen, Mich.

FOR SALE Graded Dual Purpose Shorthorn bulls, 6 and 12 mos., sired by Laddie Boy by Roan Archer. FAIRFIELD FARMS, Zeeland, Mich., R. 3.

Red Polled A few choice calves of both sex for sale. ROYSTAN STOCK FARM, Will Cottle, West Branch, Mich.

SPECIAL prices on Shorthorn bulls, cows and heifers. These will please the most careful buyers. GOTTFREDSON FARMS, Ypsilanti, Mich.

RED SHORTHORN BULL by Rodney's Model. W. E. Morrish, R. 5, Flint, Mich.

WANTED Ten fresh Jersey or Guernsey cows. Give full particulars. VANSCHOYCK BROTHERS, Route 9, Jackson, Mich.

HOGS

BIG TYPE Berkshire sows and gilts, out of Champion stock, bred for March, April, or May farrowing. Price very reasonable. COREY FARMS, New Haven, Mich.

DUROCS

Service boars, bred sows and gilts, fall pigs. Premier Michigan breeder at State Fair. LAKEFIELD FARMS, Clarkston, Mich.

FOR SALE—Duroc Gilts of type and quality, bred to High Orion No. 265227. Also a few spring boars at right prices. Shipped C. O. D. on approval. W. E. BARTLEY, Alma, Mich.

SAVE YOURSELF—BUILD A BULL PEN

By E. T. Wallace

IN building a bull pen, four factors should be considered; location, size, strength, and safety. The pen should be located in a convenient place, easily accessible, but with as little interference as possible with the arrangement of the other farm buildings and lots. If possible, it should be within sight of the lots or pasture used for the cow herd. It should be well drained, with some allowance for protection against storm and northern winds. An adequate supply of clean, fresh water should be available. The pen may be attached to the bull stall in the barn or can be built with bull shed attached. Local conditions will quite largely control the location of the pen.

The size of the pen depends entirely on the space available. If possible, the pen should be longer than wide, to encourage exercise, and should cover an area of at least 1,000 square feet. A pen 16 x 64 feet is suggested as a model, but these dimensions may be varied to suit conditions.

Materials used in bull pen construction must be sufficiently strong to confine the bull. Heavy woven wire, 2 inch lumber, poles, iron pipes, and boiler flues will satisfy those requirements. When wooden posts are used, they should be at least 9 feet long, not less than 5 inches in diameter, (a 6 inch to 8 inch is preferred), and should be set 3 feet in the ground, with the lower portion of the post creosoted to insure longer life. Concrete posts, 8 1/2 feet long, 5 inches in diameter, and set 2 1/2 feet in the ground can also be used satisfactorily. Cost and durability are the primary factors to be considered in selecting the posts and material used in building the fence. The posts should be set 8 feet apart with the corners well braced.

When woven wire is used, solid No. 9 wire, at least 50 inches in height, with one or more barbed wires at the top, will make a satisfactory fence. Iron pipes, or boiler flues, used in the blue print model, make the strongest and most durable fence. The method of attaching the pipe to the posts depends upon the size of the pipes and posts used. Pipes larger than 2 inches in diameter can be clamped to the side of the post, thereby making it possible to use a smaller post, with equally as much strength as a fence with very large posts and the pipes run through them. Clamps also simplify the construction considerably.

The bull pen is intended as a safe means of handling a mature bull. Safety is therefore one of the most essential factors to be considered. A breeding stall built adjoining the pen eliminates the necessity of handling a vicious bull. A stall, 4 by 9 feet, with a double action gate, is recommended and is one of the most important essentials of a good bull pen. A crate may be installed in this stall for the heavy bull. Where this is used, the stall should be made 4 1/2 feet wide to allow for the installation of the crate.

TESTERS HOLD MEETING

TESTERS of the Michigan dairy herd improvement associations will meet for the annual conference during Farmers' Week on January 30. The review of the activities during the past year and plans for special activities during 1928 will be presented at this conference according to A. C. Baltzer, in charge of Michigan dairy herd improvement associations. All testers of lower Michigan are expected to attend the conference and the dairy meetings of the Holstein, Guernsey, and Jersey breeders.

Announcements will be made during the conference of the essay contest

PIG INCUBATOR

NEEDS only 1/2 the SOWS and 1/2 the FEED

PERFECTS McLEAN SYSTEM DOUBLES HOG PROFITS

EVERY bushel of corn you save on your 1928 pig crop boosts your hog profits! You will save 1/2 your feed, and get more than double the pigs from the same number of sows or more pigs from only 1/2 the sows you ordinarily breed, with the **ECONOMY HOG HOUSE**

The Hog House with the Patented, Exclusive "PIG INCUBATOR"

Enables you to farrow your first litter in February or March. Saves up to 100% of your pigs even at 10 degrees below zero. This early farrowing helps you make the EARLY fall markets and get HIGHEST PRICES. You can then get another litter in early fall and the "Pig Incubator" will take your pigs through the winter for big cheap gains. This Means 16 to 20 Pigs Per Year Per Sow

No wonder hog raisers everywhere are deserting old time hog houses for this modern, up-to-the-minute perfect farrowing house which ten minutes work changes into a year 'round hog house. "Pig Incubator" Saves the Pigs Economy Hog House has six separate pens for sows. Each pen connects with six separate little pig pens into which only the little pigs can go. Central brooder stove with canopy forces heat down into these little pens, heating them to 72 degrees even at ten below. Heats sow pens to 40 degrees. Little pigs stay in their own pens except at feeding time. Sows can't injure them. This is a patented feature and the biggest improvement ever made in hog raising equipment

Perfects the McLean System Mounted on heavy, weather proofed skids, easily moved; best for owners or renters. Sanitary. Well ventilated with roof ventilator and top ventilating cello-glass windows that let in the "growth" rays of sun.

Costs Less Than You Can Build It Fully equipped with stove. Comes in sections; two men can put it up in half a day. Built of clear fir and No. 1 dimension lumber. Plan now to double your hog profits in 1928. Send coupon for catalog of Economy Hog House, self feeders, hog waterers, cattle waterers, poultry houses.

SEND COUPON SAVE MONEY
ECONOMY HOUSING CO., Onawa, Iowa Dept. 1-N
Send catalog and tell me how I can double my hog profits in 1928 with the "Pig Incubator".

Name..... R.F.D.....
Town..... State.....

NEW Low Model MELOTTE

30 days FREE TRIAL

NOW—for the first time, the farmers of America have a chance—if they act quick!—to see and USE on 30 Days FREE Trial the NEW Low Model Belgian Melotte Cream Separator. In the NEW Melotte you NOW have a greater convenience and all-round satisfaction than was ever known before.

Don't Pay for 4 Months

Yes, you need not pay one cent for 4 Months after you receive the NEW Melotte, Special Introductory Low Price RIGHT NOW! 30 Days FREE Trial. Write for FREE Book and Special Offer.
The MELOTTE SEPARATOR, H. B. Babson, U.S. Mgr. 2843 West 19th Street, Dept. 31-01 Chicago, Ill. 2445 Prince Street, Berkeley, Cal.

The Stanley J. Gardner Herd, Crosswell, Michigan. MILKING SHORTHORNS

Herd Sire, Tipperary Clyde 1331772. Grand Champion bull, Tennessee State Fair 1927. Sire of 1st prize bull calf, 1st prize pair calves. 3rd prize get-of-sire, and reserve Junior Champion bull at Mich. State Fair 1927. Bull calves up to 8 mo's. old for sale, reds and roans out of cows with records up to 14,000 lbs. milk in one year.

Milking Shorthorns Bulls and females for extra fine bred heifers. Best Jax breeding. IRVIN DOAN & SONS, Crosswell, Mich.

TWELVE YOUNG JERSEY COWS for sale. Tried sire, some young bulls and heifers of Fiddleywink blood. They combine production and type. Send for catalog. C. C. Creek, Montpelier, Ohio.

HOGS

O. I. C. HOGS on time Write for Originators and most extensive breeders.
THE L. B. SILVER CO., Box 196, Salem, Ohio

For Sale—Reg. O. I. C. April & May Pigs best of breeding. Shipped on approval. FRED W. KENNEDY & SONS, R. 1, Chelsea, Mich.

O. I. C.'s. Good last spring pigs, not akin also fall pigs, recorded free. OTTO SCHULZE & SONS, Nashville, Mich.

Fence Less Than 2¢ Per Running Foot

MY BIG Bargain Book FREE



Write today for my New 120-page Cut Price Catalog showing the biggest values we ever offered on over 150 Styles of Farm Fences—Poultry Fence, Poultry Netting, Barb Wire, Gates, Steel Posts, Metal and Ready Roofing, Cream Separators, Faints, Pipeless Furnaces, etc.

My Straight Line Selling Plan

is saving a lot of money for more than a million farmers. Guaranteed products sold Direct from Factory to Farm, all Freight Prepaid. Highest Quality. Send for catalog today—see the dollars you can save.

JIM BROWN, [8]
The Brown Fence & Wire Co.
Dept. 2808 Cleveland, Ohio

Jim Brown's 1928 Cut Price Catalog
on Fencing Barb Wire Gates, Steel Posts, Paints and Roofing



Send for Free Silo Book

TELLS YOU IN PICTURES ABOUT THE ROT PROOF STORM PROOF PERMANENT ATTRACTIVE NATCO HOLLOW TILE SILO

NATIONAL FIRE PROOFING COMPANY
FULTON BLDG. PITTSBURGH PA.



NEWTON'S Compound
Heaves, Coughs, Conditioner, Worms. Most for cost. Two cans satisfactory for Heaves or money back. \$1.25 per can. Dealers or by mail. The Newton Remedy Co. Toledo, Ohio.

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 Dept. C Kalamazoo, Mich.

HOGS

Registered Duroc Jersey Gilts

I still have a few nice lengthy ones weighing around 150 lbs. to offer, for a short time, at \$20 F. O. B. DEWEY HARTLEY, Millersburg, Mich.

CHESTER WHITES all pigs, service boars and bred sows of first quality. F. W. ALEXANDER, Vassar, Mich.

Registered O.I.C. Gilts bred for April and May farrow. H. W. MANN, Dansville, Mich.

FOR SALE Poland China boars of March and April farrow. Also some choice bred gilts, due to farrow in March and April. Every one immunized for cholera. WESLEY HILE, Ionia, Mich.

LARGE TYPE POLAND CHINAS Spring Pigs, either sex for sale. Also Brown Swiss Bulls. A. A. Feldkamp, R. No. 2, Manchester, Mich.

Poland Chinas Extra large spring boars and gilts. Also weaning pigs. JAMES G. TAYLOR, Belding, Mich.

A FEW good Hampshire spring boars at a bargain. Place your order for bred gilts. JOHN W. SNYDER, St. Johns, Mich., R. 4.

SHEEP

BRED EWES

263 Choice extra large Delaine ewes. 91 yearlings, balance 2 and 3 yr. olds. Bred to registered Shrop. rams. Must sell as we are overstocked. D. L. CHAPMAN & SON, S. Rockwood, Mich.

SHROPSHIRE Flock of 14 choice young Reg. ewes bred to an imported Buttar Ram. Priced right. D. L. CHAPMAN & SON, S. Rockwood, Mich.

Rambouillet Ewes 20 yearlings, registered, not bred, from heavy shearing ram. Priced right for quick sale. H. W. HART, Greenville, Mich., R. 2.

One Registered yearling Leicester Ram for sale. Price reasonable. COREY FARMS, New Haven, Mich.

HORSES

WE OFFER FOR SALE

4 high class Reg. Percheron mares, two blacks and two greys, all bred and broken to work. They are two well matched teams, sound and large. Bred to a son of Eudant. Also one pair of three year old geldings, sound and a good pair. Prices reasonable. WHITNEY BROS., Onondaga, Mich.

FOR SALE Some nice registered Percheron fillies, also some young stallions at the right price. E. A. ROHLFS, Akron, Mich.

FOR SALE A coming three-year-old Belgian stallion, a splendid individual. HILLCREST FARMS, Kalamazoo, Mich.

winners. This contest among Michigan testers dealing with their accomplishments during the year has been an annual event and is rewarded by a prize of \$100.00 cash put up by the Michigan Creamery Owners and Managers Association.

WHAT TESTING IS DOING

THE dairy herds of the United States include about 22,000,000 cows. About 400,000 of these, owned by members of dairy-herd-improvement associations, are tested each month for milk and butter-fat production, enabling owners to eliminate unprofitable cows from the herds. In 1926, Doctor Larson, our dairy chief at Washington, stated, on the basis of comparative records, 360,000 of these cows produced as much milk as 584,000 average cows, and returned as much profit over cost of feed as 640,000 average cows.

The average annual production of the cows in dairy-herd-improvement associations in 1920 was about 6,000 pounds of milk, in 1926 about 7,500 pounds, or an average annual increase of about 200 pounds as the result of improved practices growing out of testing, such as elimination of unprofitable producers, selective breeding, and scientific feeding of the profitable cows in the herd. If only half as much gain could be made in herds, generally, the increased milk supply from the present number of cows would provide for 80,000,000 more people in 1966.

MAKING THE MOST OF OPPORTUNITY

FRED KATONA of Alcona County, Michigan is a farmer young in years but with a long head. He was aware that his county was in a section particularly well adapted to the growing of clover—in fact, it is called Cloverland—and that, therefore, dairying was the logical phase to emphasize.

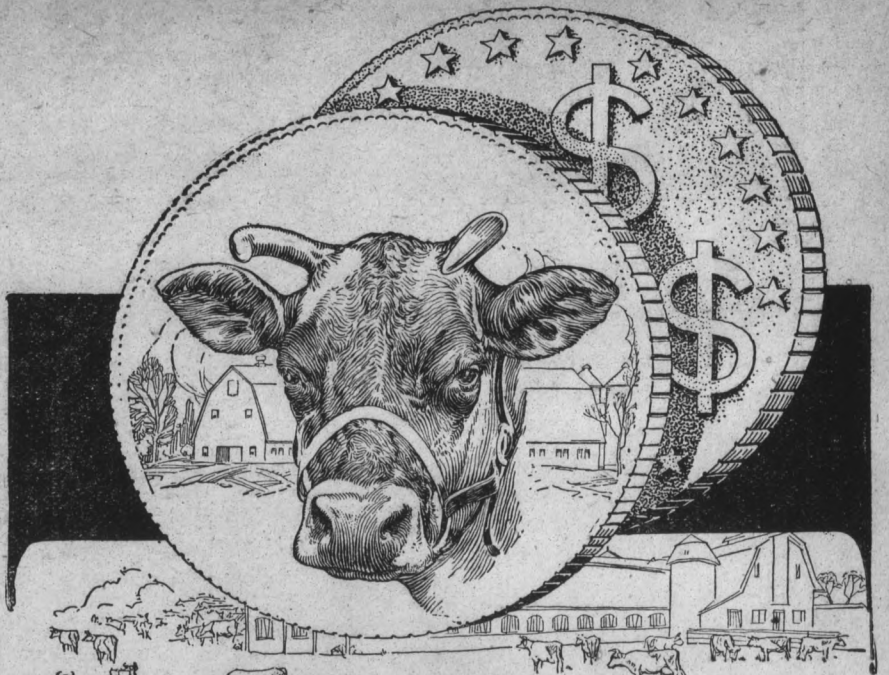
Fred was not alone in that realization. Every farmer in his county has cows. Where Fred differed radically from most of them was in the fact that he was not satisfied to have just cows—he wanted better stuff.

Two years ago he purchased a purebred Guernsey bull, Nordland Golden Prince 95345, an animal of splendid type and quality and with high butter-fat ancestry. Fred was not long on money at that time, but he paid a good slice of what he had in order to secure this sire. It took courage to do this, but he was looking into the future and knew what he was doing.

The daughters of this sire are a fine bunch and they have been getting the right care and handling. Because the Katona dairy herd is small, Katona could not keep this sire long. Another young bull, with the same high butter-fat records behind him, has already been purchased to grade the herd to a still higher point of production. All of which is in line with Fred's determination to build up a herd of top-notch butter-fat producers. He says he is through for good with milking cows of nondescript breeding and very indifferent butter-fat production.

The point of this story is that Fred saw an opportunity in his section and then, instead of taking only half-way measures to secure the benefits of it, did all in his power to realize the fullest possible advantages from this opportunity. And now that he has weathered the storm of financial embarrassment resulting from paying a high price for this first sire, we have every confidence that his business will continue to expand rapidly with the maturing of the progeny from these sires.—W. C. Mullenburg.

Aniline dye solutions have power to stop growth of bacteria.



10% more milk

Doubles your profit

Noted dairy experts say that in the average herd one-tenth more milk will double the net profit. It costs no more, for instance, to house, feed and care for a good milker than a poor milker. After actual expenses are met every quart of milk is net profit. What other effort on the farm will pay you so handsomely as intensive milk-production?

Let Kow-Kare work for you this winter. Use it—as thousands of other money-making dairies are doing—to systematically regulate and condition your cows so that they are able to turn their food into big milk yields. A few cents per month per cow pays for all the Kow-Kare needed—a mere fraction of your certain returns.

For cows about to freshen, give a tablespoonful of Kow-Kare at feedings for two or three weeks before and after calving. It builds vigor to stand the strain of calf-birth, and to resist disease.

Barrenness, Retained Afterbirth, Abortion, Bunches, Scours, Lost Appetite, etc., are all successfully treated with Kow-Kare. Full directions on each can. Feed dealers, general stores and druggists have Kow-Kare. Large size \$1.25; 6 cans for \$6.25. Small size 65c. Send for booklet, "More Milk from the Cows You Have."

Dairy Association Co., Inc.
Lyndonville, Vermont

KOW-KARE
Regulates and Conditions

Home-Mix Your Own COMPLETE MINERAL
With Kow-Kare you can easily mix your own complete mineral at a surprisingly low cost—a mixture of recognized conditioning value. Simply mix 30 lbs. salt, 30 lbs. fine-ground lime, 30 lbs. steamed bone meal and four cans (large) Kow-Kare. For well under \$6 per hundred you will have an unbeatable mineral. Use 80 lbs. of this mixture to a ton of grain.



The regular conditioning of cows with Kow-Kare calls for only a tablespoonful in the feed one to two weeks each month—depending on the general vigor and productivity of the individual cow. Give this plan a trial this winter on the whole herd. It costs so little and does so much you cannot help but profit by it.

You can do it... here's how

ROSS METAL SILO
Lifetime Satisfaction

MADE of copper-content Rossmetal galvanized. No shrinkage or swelling. Can be increased in height. Movable. Safe against fire and wind. No freeze troubles. Send for remarkable booklet—"What Users Say."

Easy terms—buy now, pay later.
Check below items in which you are interested and we will send illustrated folders.
Agents wanted in territory where we are not represented.
The Ross Cutter & Silo Co., 462 Warder St., Springfield, O. Established 1850
Makers of
Silos □ Cutters □ Cribs □
Brooder Houses □ Hog Houses □ Mills □



MICHIGAN Concrete STAVE SILOS

The last word in a permanent silo. Write for free illustrated literature. Tells how we manufacture and erect for you under best known processes.
Special Terms if You Order Now!
MICHIGAN SILO CO., Kalamazoo, Michigan

SAVE the Teat
Use Moore Bros. PURPUL medicated Wax Dilators to heal without closing. After operating, when sore or congested, for reducing spiders insert this wonderful healing dilator. Avoid expensive troubles, lost quarters.
Package Sent FREE
Write us dealer's name and we will mail generous package free. At dealers 25c. dozen; 5 dozen \$1, or mailed postpaid. INSERTE Moore Bros., Dept H Albany, N.Y.
Medicated Wax Dilators





THE LATEST MARKET REPORT



GRAIN QUOTATIONS.

Tuesday, January 17
Wheat.

Detroit—No. 2 red at \$1.41½; No. 2 white \$1.39; No. 2 mixed at \$1.39.
Chicago—March \$1.29½; May \$1.30¾; July \$1.27.
Toledo—Wheat, No. 2 red at \$1.42@ \$1.43.

Corn.

Detroit—No. 2 yellow 97c; No. 3 yellow 95c; No. 4 yellow 93c.
Chicago—March 91c; May 93½c; July 94½c.

Oats.

Detroit—No. 2 Michigan 61c; No. 3 white 59½c.
Chicago—March 55½c; May 56½c; July 52½c.

Rye.

Detroit—No. 2, \$1.16.
Chicago—March \$1.08¾; May \$1.09; July \$1.03¾.
Toledo—\$1.15.

Beans.

Detroit—Immediate and prompt shipment \$6.25 f. o. b. shipping points.
New York—Pea domestic at \$6.25@ \$6.75; red kidneys \$7.25@8.00 to the wholesalers.
Chicago—Spot navy beans, Michigan choice, hand-picked, in sacks at \$6.45 @ \$6.50; dark red kidneys \$7.75.

Barley.

Detroit—Malting 93c; feeding 89c.

Seeds.

Detroit domestic seeds.—Cash clover \$18.60; February \$18.75; March \$18.70; cash alsike \$16.30; February \$16.45; March \$16.60; timothy at \$2.05; March \$2.15.

Hay.

Detroit—No. 1 timothy at \$13.00@ \$14.00; standard \$12.50@13.50; No. 2 timothy \$10.00@11.00; No. 1 light clover, mixed \$13@14; No. 1 clover \$11.50@12.50; wheat and oat straw \$10.00@11.00; rye straw \$11.00@12.00 alfalfa hay, No. 2 to choice at Chicago, \$24.00@26.00.

Feeds.

Detroit—Winter wheat bran at \$40; spring wheat bran at \$39; standard middling at \$39; fancy middling at \$43; cracked corn at \$43; coarse corn meal \$41; chop \$40 per ton in carlots.

WHEAT.

The wheat market has shown a rather soft undertone in the last week. Export demand for wheat from the United States has not yet shown the improvement which seemed likely to take place when the close of lake navigation reduced the quantity available from Canada. Instead, clearances dropped off to the smallest volume in six months or more.

While domestic mills continue to grind wheat at a fairly high rate for this season of the year, the lack of export demand has prevented stocks in this country from diminishing rapidly. Information upon the wheat situation abroad is not complete enough to explain clearly why export demand has failed to broaden. The movement from Australia and Argentina has barely started. Shipments will not begin to arrive in Europe in volume for five or six weeks yet. In spite of the

slowness of foreign demand thus far, it seems probable that export sales will increase somewhat in that interval.

Reports of dry weather damage to the new crop in the southwest still come forward but the acreage is so large that a heavy winter loss would still permit the harvest of a large crop.

RYE.

Exports of rye in the last three weeks have been the smallest since the new crop started to move. Crop estimates for Germany and Poland, the two principal rye-producing countries of western Europe, have both been revised downward recently and foreign statisticians estimate that further substantial amounts will be needed from the United States by importing countries before the end of the crop year.

CORN.

The poor quality of the corn crop in some sections seems likely to compel free marketing during the winter in order to prevent spoilage and the danger of weevil damage later will stimulate selling the large surplus in the southwest. Primary receipts of corn are fully up to average size for this season of the year and the present visible supply has been exceeded at the corresponding season only by the record visible of a year ago.

Commercial demand is satisfactory, however, and the rate of accumula-

tion of corn at terminals is not much heavier than it was a year ago, whereas the receipts are considerably heavier.

OATS.

Oats prices have been following the fluctuations in other grains. The basic situation remains strong, with a small visible supply, light receipts, reduced farm holdings and fairly active demand. The visible supply has not changed much in the last month, however, so that the market has not had any special incentive from that direction.

SEEDS.

Interest in field seeds is finally developing as the planting season approaches. Domestic red clover is attractive at present prices, particularly since stocks in the country are moderate. Offerings from abroad continue small as was expected in view of the comparatively light production. Alsike clover seed averaged about 35 cents per 100 pounds higher on January 3 than a fortnight previous, but growers continued to market their stocks slowly. Only 80 per cent of the crop had been sold by growers on that date. Timothy seed prices are steady, and dealers generally expect values to advance as the spring demand develops.

FEEDS.

The upward trend which set in in the wheat feed market late in October

has continued over into the new year. Offerings are freely taken even at the higher prices, so that there is little accumulation of stocks. Demand generally is for prompt shipment. High prices for cottonseed meal have stimulated an active demand for gluten meal at firm quotations.

Chicago—Bran, \$32.75; standard middlings, \$32; hominy feed, \$37.75; gluten feed, \$38.70; old process oil meal, \$50; tannage, \$75.

EGGS.

The erratic behavior of egg prices last week was typical of the vagaries of a weather market. Prices fell 4 cents a dozen at Chicago when supplies began to increase following the storm period in a quick advance. Dealers will continue to be influenced by changes in weather and interruptions to the market movement of eggs, but the main trend of prices during the next few months will be down.

Chicago—Eggs: fresh firsts 42@43c; extras, 50@51c; ordinary firsts 34@40c; dirties 28@32c; checks 28@31c. Live poultry: Hens 23c; springers 24c; roosters 18½c; ducks 22c; geese 19c; turkeys 28c.

Detroit—Eggs: Fresh candled and graded 42½@46c; storage 30@38c. Live poultry: Heavy springers 28c; light springers 22c; heavy hens 28c; light hens 22c; roosters 16c; geese 20 @21c; ducks 30c; turkeys 35@38c.

BUTTER.

The first break of any consequence in the butter market from the winter high point came last week when 92 score creamery butter dropped 4 cents a pound at Chicago. Receipts showed a marked increase as supplies which had been delayed by the recent storm finally began to arrive, and production reports generally indicated an increased output. Use of storage butter to help satisfy the active consumptive demand continues on a broad scale, and the surplus is rapidly disappearing. On January 1, the surplus over a year ago had been reduced to 12 million pounds.

Prices on 92 score creamery were: Chicago 46¾c; New York 49c; in Detroit fresh creamery in tubs 42½@46c

POTATOES.

The potato market is pegged at \$1.50 to \$1.65 per 100 pounds for northern round whites, U. S. No. 1, in the Chicago carlot market. Country haulings have not yet fully recovered from the setback during the recent cold wave so that market receipts are only moderate, but demand is dull. Prices average about a third lower than at this time a year ago and many farmers are still holding on to their potatoes in hope of a better market later. Good inquiry for seed potatoes has been reported from some sections, and a heavy demand is expected to develop.

APPLES.

Apple shipments have increased somewhat as compared with recent weeks, although they are still only about half as large as at the corresponding time in 1926. Demand is fairly constant and prices remain firm. Michigan A-2½ inch Jonathans bring \$8 to \$9 a barrel at Chicago.

WOOL.

Wool prices continue strong in both domestic and foreign markets. At Boston, quotations have been either unchanged or higher every week since last June. At present, all grades of Ohio fleeces are selling at 49 to 50 cents, grease basis, at Boston. Mills appear to be slightly apprehensive as to future supplies. There is no surplus in stocks of goods and stocks of wool at Boston probably are the smallest at this season in a number of years. Contracting in the west is a little less brisk as some dealers have already obtained a substantial supply. Further sales are reported in Oregon at 33 cents, Nevada, 31½ to 32 cents, Utah, 30 to 31 cents, and Texas 40 to 42 cents.

GRAND RAPIDS

Potatoes 95c@1.00 bu; onions \$1.00 bu; parsnips \$1.00 bu; leaf lettuce 14@15c lb; radishes 75@90c doz bchs; cabbage 75@85c bu; carrots 75c bu; apples, fancy, \$2.00@3.50 bu; various varieties \$1.50@2.00 bu; wheat \$1.19 bu; rye 80c bu; buckwheat \$1.50 cwt; beans \$5.55 cwt; pork 10@11c lb; beef, 6@8c lb; veal 15@16c lb; chickens 18@25c lb; hens 17@25c lb; eggs 38@40c doz; butter-fat 50c lb.

Live Stock Market Service

Tuesday, January 17

DETROIT.

Cattle.

Receipts 263. Market steady. Good to choice yearlings dry-fed \$11.00@13.75 Best heavy steers, dry-fed 10.25@13.00 Handy weight butchers.. 9.00@11.00 Mixed steers and heifers. 9.00@10.00 Handy light butchers 7.50@ 9.50 Light butchers 6.00@ 8.50 Best cows 7.00@ 9.25 Butchers cows 6.00@ 7.00 Cutters 5.50@ 5.75 Canners 4.75@ 5.25 Choice light bulls 6.00@ 9.00 Bologna bulls 7.00@ 8.50 Stock bulls 6.00@ 7.75 Feeders 7.00@ 9.50 Stockers 7.00@ 8.50 Milkers and springers... \$75.00@115.00

Calves.

Receipts 473. Market steady. Best \$16.00@16.50 Others 7.00@15.50

Sheep and Lambs.

Receipts 1,753. Market steady to 25c higher. Bulk good lambs.....\$ 13.00 Best lambs 13.25 Fair lambs 10.50 Light lambs 6.00@ 9.00 Fair to good sheep 5.50@ 7.00

Buck lambs 7.50@12.25 Culls and common 2.00@ 3.00

Hogs.

Receipts 2,303. Market steady to 20c lower. Pigs, 130-lb. down.....\$ 7.50 Mixed hogs, 180-300 avg... 8.50 Lights, 130-160 lbs. avg... 7.75 Roughs 6.50 Good Yorkers, 160-180 lbs. average.... 8.60 Stags 6.00 Extreme heavies 7.00

CHICAGO.

Hogs.

Receipts 65,000. Market generally 10@15c lower; active at decline; many sales choice 160-300-lbs. average \$8.35; tops \$8.35; bulk good 170-300-lbs. \$8.20@8.35; light lights and pigs very uneven; most pigs 25c lower; stots off more, demand narrow; 150-lbs. average up to \$8.25; bulk 140-150-lbs. \$7.75@8.15; most pigs \$6.75@7.25; strong weights up to \$7.75; most packing sows \$7.15@7.35.

Cattle.

Receipts 9,000. Market fed steers slow, steady; not much here; killing quality plenty; she stock steady to strong; bulls 10@15c lower; vealers strong to 25c up; active demand for stockers and feeding steers; best fed steers \$18.50; best yearlings \$17.00; market lacks Monday's activities; cost low; cutter cows \$5.60@5.75; best sausage bulls \$8.50; bulk \$7.75 light vealers \$11.00@12.00, few \$12.50@13.00; shippers \$14.00@15.00.

Sheep and Lambs.

Receipts 13,000. Market fat lambs fairly active, strong to 25c higher, refusing \$13.40 on sorted handy weight lambs; early bulk good to choice 84-88-lb. lambs \$12.75@13.00; finished 90-100-lb. kind \$12.25@13.00; 105-115-lb. throwouts \$11.50@11.75; light natives \$12.50; most sheep strong; bulk fat ewes \$6.75@7.25; light supply feeding lambs firm; medium 64-lb. feeders \$12.00.

BUFFALO.

Hogs.

Receipts 1,000. Hold over 1,276; steady to 10c higher; bulk 180-250-lbs. \$9.10@9.15; few 170-lbs. \$9.25; pigs \$7.50@8.00; light lights \$8.00@9.00; packing sows \$7.00@7.75.

Cattle.

Receipts 25. Market on few cows steady.

Calves.

Receipts 200. Market steady; top vealers \$16.50; culls and common \$9.00 @ \$12.50; few medium 130-lbs. \$15.00.

Sheep and Lambs.

Receipts 100. Market steady; few good lambs \$13.25; culls and common \$10.50@12.00; fat ewes \$6.00@7.50.

DON'T Let Udder Trouble - Ruin Your Best Cows

USE Dr. David Roberts UDDER BALM, a penetrating, soothing and healing ointment especially prepared for the treatment of udder trouble in all livestock. **UDDER BALM** is the newest addition to the almost complete line of **Dr. David Roberts Prepared Prescriptions** and is the final result of careful experimenting and thorough testing. The peculiar properties of **UDDER BALM** make it unusually effective in the treatment of all udder trouble.

Use Dr. David Roberts Udder Balm for Caked and Inflamed Udder, Garget, Mammitis, Bloody Milk, Chapped or Inflamed Teats, Bruises.

You cannot afford to be without this preparation that means relief and comfort for your cows and the satisfaction on your part of knowing that there is no udder trouble in your herd.

For Sale by Dealers Everywhere. If no dealer, send direct. Half-pound can 50c Postpaid.

Write for free copy of the Cattle Specialist and how to get the Practical Home Veterinarian without cost.

Veterinary Advice Free

DR. DAVID ROBERTS VETERINARY CO., Inc.
124 Grand Avenue, Waukesha, Wisconsin

I'll Put This
PAGE Portable MILKER
 In Your Dairy Barn On
Free Trial

You Can Try It Before
 You Buy It

It Won't Cost You a Cent
 To Install It

Just Wheel It In and
 Start Milking

You Don't Have To
 Keep It If You
 Don't Like It



Now Every Farmer
 Can Afford to Own
 a Power Milker

Did you ever have to quit the field early just when you were busiest with plowing, haying or harvesting to get the milking done? Did you ever go to the stock show or county fair and have to milk for an hour or two after dark by lantern light? Do you ever feel that you are chained down to your farm and cannot ever get away to visit your relatives or friends for a few days vacation just because you haven't anybody you can leave who will do the milking right?

Banish the Drudgery
 of Hand Milking

A few years ago it was the generally accepted opinion that only the man who milked 40 to 50 cows and specialized in dairying could afford to own a power milker. The average farmer had the idea that a power milker was too expensive for him and too costly to install. That might have been true a few years ago, but times have changed, and today with the advent of the new portable type Milker, any farmer who has 6 or 8 cows to milk, or more, can afford to own a portable milker. It will not only banish the drudgery of hand milking and cut an hour a day off your chore time, but will pay for itself on your farm the first year in time and labor saved and you will find them so simple to operate that a 10 year old boy can do the milking just as well as a man.

You Spend More Than
 30 Working Days a Year
 Just Milking

Nowadays, every farmer who milks cows should have a milking machine just as he has machines for other farm work.

You wouldn't seed your land by hand. You wouldn't harvest or thresh by hand. You wouldn't spread manure by hand these days. You, like most farmers, have special machines for each one of the jobs, yet if you stop and figure it out, you only use each of those machines about 40 or 50 hours altogether during the entire year. Then compare that with the amount of use you would have for a milking machine which you would use twice a day every day in the year and you will realize that you spend from 400 to 500 hours a year at this daily task. That is equal to 40 to 50 ten hour working days a year—almost 2 months.

New Type of Milker Fits the
 Average Farmer's Needs
 and His Pocketbook Too

Nowadays the new PORTABLE type of Power Milker has been perfected to such a point that almost any farmer can afford to own one. Their first cost is low—they cost nothing to install—they are simple and economical to operate and they do the work so much faster and quicker than you can do it by hand. These are the reasons why thousands of farmers and dairymen are buying portable milkers, and the one that most of them are buying is the PAGE PORTABLE Milker, because they can try it on their own cows before they buy it.

The Page Portable Milker has been sold and used successfully for years by farmers all over the country. The new 1928 models of this famous portable machine are a tremendous improvement in machine milking. It makes no difference who does the milking. You, the children, the hired man. You always get the same, uniform action, so easy, so pleasing to the cows.

Find Out Before
 You Buy

Find out all about this new PAGE improved portable milker at once. Find out what it is doing for other farmers and dairymen whose conditions are similar to your own. Find out about this FREE TRIAL Offer. Find out about the easy payment plan with no money down.

Don't fail to write for the FREE Book on Page Portable Milkiers. Mail the coupon on the other side of this page, or send your name and address on a post card for the book and complete information today.

USER AGENTS WANTED

We want a representative in every farming community. Good pay for spare time. No canvassing. Just demonstrate the Milker on your farm. See coupon.

This **NEW FREE BOOK** Tells All About It

You would put a Milking Machine in your barn tomorrow if you were absolutely sure that it would do the work quicker and better than hand milking—if you knew that it did not cost anything to install—if you were convinced that it would save enough time and money to pay for itself—wouldn't you? Well, we have a FREE TRIAL Offer on the Page Portable Milker whereby you can do just that. We will prove to you that here is a new Portable Milker, so much lower in cost and so much handier to use than any man who keeps 6 cows or more can afford to own one. We'll show you how you can wheel this complete power outfit into your barn and start milking without any bother or installation expense. That sounds interesting—doesn't it? We don't ask you to take our word for it. We'll prove all these claims to your own satisfaction before you pay.

Better write for your copy of our FREE Milker Book today and find out all about this easy way to try a Milker before you buy it. The book is FREE and will be sent postpaid for the asking.

Thousands of Page Milkiers In Use Today

Already thousands of farmers and dairymen in this country have accepted this FREE TRIAL Offer and found that the Page Portable Milker cuts an hour a day off chore time. It will do the same for you. The fact that Page Milkiers are in daily use in every part of the country from New England to Texas proves that this FREE TRIAL Plan is the only safe and sure way to test a milking machine and that Page Milkiers are "making good" wherever they go.

The new Page Milker is—PORTABLE. Comes complete, ready to use. Nothing to install. Just wheel it in and start milking. No pipe lines, no pulsators, no vacuum tanks to build into your barn. The Portable Page has made all this expensive, complicated mechanism needless. The power is built right into the outfit and you can have your choice of hand power, gas engine power or electric power. It milks 2 or 3 cows at a time—puts the milk right into your shipping cans. No extra pails to handle or to wash. You can clean it in one minute by just pumping a little water through it. You have to see it and use it to appreciate how much time, labor and money it will save you. That's why we make you this FREE TRIAL Offer and guarantee the PAGE Milker for 10 years.

No Money Down—FREE TRIAL—Easy Payments

We will put any Page Milker in your barn without any money down. We'll let you use it—test it—try it on your own cows entirely at our risk before you pay us a cent. Then if you don't find this Portable Power Milker the easiest to operate—the easiest on cows—the easiest to own—you can ship it back. No fuss—no argument—no obligation. If you decide to keep it, you can pay for it on easy monthly terms. This is the most liberal, straightforward, "try-before-you-buy" offer ever made on a power milker. You can't afford to pass it by. Send the coupon and find out all about it at once.

Read What These Michigan Farmers Say

"The Page Milker is the best thing for a farmer to have—so easy to operate, such little cost and the cows seem to like it. We think every farmer in the U. S. ought to have one. They don't know what they are missing by not buying a Page Milker. We feel like telling every farmer we meet about the Page and telling them how easy it is to get one."

NEWHOUSE BROS.
 Kalamazoo, Mich.

"One year ago I bought one of your electric Milkiers. I'm more than pleased with it. It saves more time than any other machine on the farm because we use it twice a day the year round. It has less parts to wash and is easier than hand milking. My 10-year old boy can milk 11 cows in 45 minutes and do all the stripping while the last cow is milking. By all means buy a Page."

W. H. CHARLICK,
 Highland, Mich.

"Your 2 cow Page Milker is surely fine in every way. The cows are certainly pleased with it. I would not be without the machine for double the cost."

ARON OLSON,
 Iron Mountain, Mich.

"We have used a Page Milker every day since last June. Our milk amounts to 8,000 to 10,000 lbs. per month. Two little girls run it, one is 10, the other 12."

C. H. SIMPSON,
 Hartford, Mich.

"Six years ago my hands got to bothering me awfully. I saw your ad and sent for one of your machines. We have had very best results of your machine and have not had to milk herd by hand since. I also found that if you break a heifer in with the machine when she first freshens, you will never have to strip her. She will let her milk all down at once and never know what stripping is."

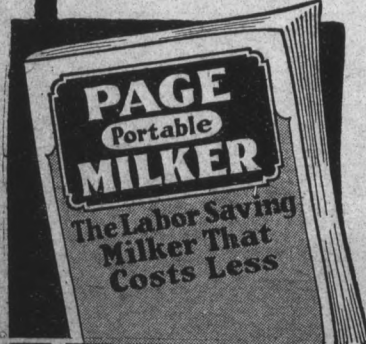
W. F. WOLF,
 Milford, Mich.

We have many other letters as interesting as those above from Page owners in this state and other states, but space does not permit printing them all. Send for our FREE Book and we will send you a hundred more letters showing just what Page Milkiers are doing for others.

Send for This FREE Milker Book
 and New FREE Trial Offer—Today

This special Rock Bottom Factory Price and FREE TRIAL Offer is good only until we have an agent or salesman in your locality. So don't wait. Send the coupon at once for our FREE Milker Catalog and complete information on this special offer. This is your chance to save money and find out what a Milking Machine will do for you on FREE TRIAL. Fill out and mail the coupon now—before it is too late.

BURTON PAGE COMPANY
 Dept. 66 537 S. Dearborn St., Chicago, Ill.



BURTON PAGE CO.,
 Dept. 66 537 S. Dearborn St., Chicago
 Please send me your FREE BOOK containing the facts on milking machines and full details of your free trial, easy payment offer on the Page Portable Milkiers.

Name

Address

Do you want our cream separator offer?

Would you like to be a USER AGENT?