

# MICHIGAN FARMER

AND  
*LIVE STOCK*  
PUBLISHED WEEKLY.

*JOURNAL.*  
ESTABLISHED 1843.

CLXI

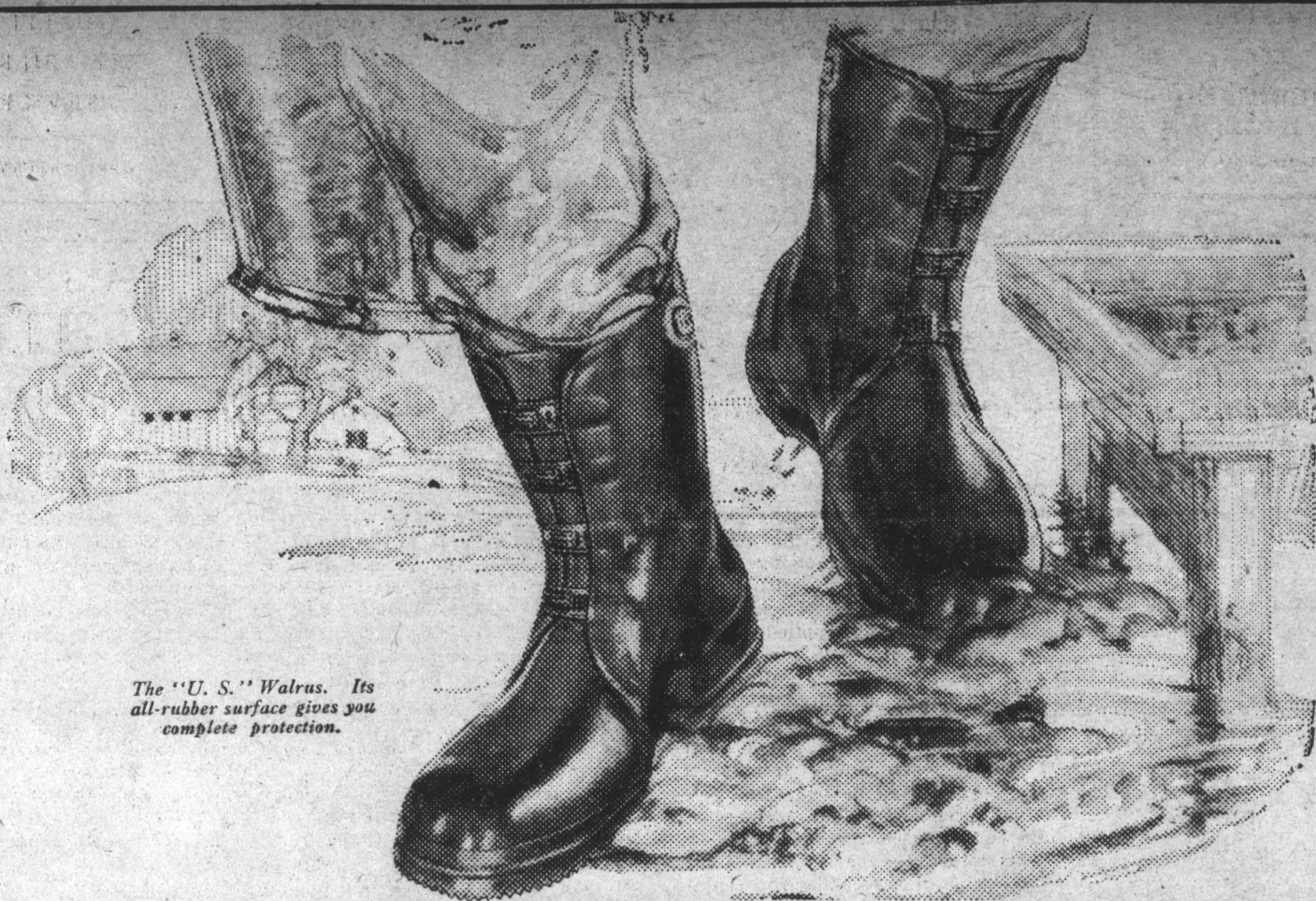
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DETROIT, MICH., SATURDAY, DECEMBER 15, 1923

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DEVOTED  
TO  
MICHIGAN

VOLUME CLXI

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AND LIVE STOCK JOURNAL  
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A Practical Journal for the Rural Family  
MICHIGAN SECTION THE CAPPER FARM PRESS

QUALITY  
RELIABILITY  
SERVICE

NUMBER TWENTY-FOUR

## Alfalfa Puts Pep Into Old Farms

*Oak Openings Land Comes Back Under the Almost Magic Influence of this Plant*

By Jason Woodman

IN the fall of 1917 my son, John G. Woodman, purchased a piece of land adjoining the homestead on the north. In a state of nature it was typical "openings." The surface undulating, originally covered with a somewhat scattering growth of oak and with rank growing bluestem and Indian grasses. A few burial mounds, still visible, relics of the mysterious people who occupied the land before the Indians came, dotted its surface.

The soil varies, ranging from a fairly good sandy loam to a light thin sand. Broken up about three-quarters of a century ago, for many years it produced good crops of clover and grain. About twenty-five years ago the clover began to fall and the land gradually grew less productive until it became distinctly poor. Its history has been that of a large proportion of the lighter oak opening lands in southern Michigan and its condition when purchased was neither better nor worse than that of many thousands of acres of similar soil in this part of the state.

The fall the land was bought it was sown to rye, two and one-half tons of finely ground limestone per acre was applied. Timothy was sown with the rye in the fall and clover was drilled in the spring following, both clover and timothy made a good start. By the first of July the clover had disappeared and by August 15 the timothy was dead, except in isolated spots. The season, while rather dry, was not especially unfavorable for securing a seeding.

This year ten acres of the land where, in 1918, neither clover nor timothy would stick, produced 345 bushels of potatoes per acre. A brief description of the treatment given this ten acres during the four years pre-

ceding the potato crop may interest some of the readers of the Michigan Farmer. The spring following the failure of the clover and timothy the land was fitted for alfalfa. No manure or other fertilizer was applied, but another one and one-half tons of lime was given the land. The alfalfa was sown the middle of July, too late to insure the best results. The summer was hot and dry. Grasshoppers and the garden web worm thinned the stand, especially on the sandier portions of the field. The result was a somewhat spotted seeding.

The following year, 1920, it was mown twice, the season's crop amounting to about one and one-half tons of

and under the shade of a luxuriant second growth and of the mulch of manure and decaying alfalfa stems and leaves, myriads of bacteria working in a lime-sweetened soil made still further substantial additions to the fertility being accumulated for the potato crop that was to follow. The growth of alfalfa that shot up on the field this last spring was a joy to see. In May this accumulation of organic matter was rolled under. The disc and spring-tooth harrow completed the preparation. Past experience has shown conclusively that this particular type of sandy soil is deficient in available potash so that about the middle of June four hundred pounds of potassium sul-



phate per acre was spread over the field and disced in. The last days of June, twenty-eight bushels of certified seed to the acre were planted. The crop received the usual cultivation and was sprayed thoroughly with bordeaux mixture six times.

As a rule the weather was favorable up to October 5, when a heavy frost killed the vines. The crop was harvested the latter part of October and 3,450 bushel crates of potatoes were taken from the field. On the west side along the highway is a row of sugar maples about seventy years old, and on the east side a body of second growth oak. The half acre shaded by these two boundaries of timber yield-

ed ninety bushels. The rest of the field produced slightly over three hundred and fifty crates per acre. Inasmuch as the young man paid by the crate to have the tubers picked up, it is unnecessary to say that the crates went to the potato cellar well filled. The land will be fitted for oats next spring without plowing. Alfalfa will be seeded with the oats, with the certainty that it will catch and stick. Dry weather will not kill it.

What was done with the rest of the purchase? It was all seeded to alfalfa during the first three years after it came into the hands of the present owner. A part of it was plowed this fall and sown to wheat, the rest is still in alfalfa. The greater portion of the hay raised on all this land since it was seeded has been sold and a reasonable cash income has been derived from the investment while the soil-building process has been going on.

While the nine tons of manure per acre, and the potash, aided materially in producing a good yield, after all, it was the alfalfa that made the 345 crates possible. Clover in its best days, with only nine tons of manure to go with it, would not have produced the crop returned by this alfalfa sod, mulched by the hay crops that grew on it last year.

Similar cases of soil renovation can be seen on hundreds of farms in these southern counties. Ride where you will over our pleasant "opening" lands and you will see fields covered by the green mantle of alfalfa. Their number is multiplying every summer and the gift of prophecy no longer is needed to foresee and tell what will happen in the next few years to the depleted sandy loams that have been "the agricultural problem" of lower Michigan.

## An Ole Hired Man O' Mine

By P. P. Pope

I HAD a short visit the other day with an old hired man of mine. He is well known to people hereabouts as Edd Carey. He came to work here on Francisco Farm back in 1915 and drew down the whole of \$28 a month.

He spent five years with us and when he left he had acquired a number of the things that go to make life worth living; namely, a beautiful young wife, a sweet little babe, a comfortable household equipment, a cow, a small car, and \$500 in cash. If you ask Ed he will also say that he had learned a few things about farming.

Makes the Farm Pay.

Although I cannot explain, it has become sort of a habit with men who spend a few years with me, to go directly to farming for themselves when they leave. This man followed the usual custom, and, although his first years on rented farms have been the hardest years of this generation, the story he tells is well worth passing on to those who have been led to believe that farming doesn't pay any more.

Mr. Carey is an especially good horseman. He has learned that good, well-trained draft horses are always saleable; so he keeps that kind. For his young draft team, which he has mated and handled himself, he was re-

cently offered nearly twice what they cost him. He has a very good farming equipment and says: "I bought me a new grain drill this spring, a new sulky cultivator, and a new beet rack, and several smaller tools. My first beet check for the 1923 crop has given me enough to pay up all my bills, besides paying for all the hand labor, and I have more than half of the crop to hear from next month. My rent is all paid and I don't owe any man a dollar. I have rented the same farm for two more years, cash rent, and now I want a few good cows and I'll have to come over to your house after awhile and get another pig."

Mr. Carey has abundant confidence in the farm, and his confidence is founded upon experience. Good seed, placed in good soil, in good season, and tended with plenty of hard work, has it all over a city job, even in these days, in his opinion.

It is men of his stamp, who are not afraid of hard work, who have a keen interest and unbounded faith in the farm, and who are intelligent enough to apply their efforts, only, to good soils, with adapted crops, and first-

class live stock, who will be among the successful farmers of tomorrow. Then unless history turns round and goes backward, those who stay by the job these difficult days will be in line for the higher rewards that are to follow.

And right in this connection may it not be interesting to add a word about a thing that happened at our farm the other day, which indicates a little of the kind of training being given our future farmers.

Judging Live Stock.

Professor Cobb, head of the department of agriculture of the nearby Normal College, came out to the farm recently with his animal husbandry class. The boys, a dozen or more of them, spent a couple of hours in going over the live stock and getting some practical experience in comparative judging.

We turned out for them to work on a class of four aged sows, a class of four fall gilts, a class of four yearling heifers and a pair of young bulls.

We enjoy having these boys come, and are always glad to spend an hour with them. They get a worth-while

experience in actual live stock judging, and learn the feel of a good cow, the value of true action in a horse, or of breed character in a hog. These things they cannot get from books or charts.

We learn what the public thinks when they look at our stock. The casual visitor may be backward about saying what he thinks for fear of giving offence, but these lads do not hesitate to call attention to the crooked feet, the deficient hearth girth or the high tail head, and, believe me, if those things are there, these lads are sure to find them.

It is an interesting event for all of us, and all too soon the professor calls, "time," and there is a scurrying for the cars, the motors start, they wave a good-bye to us and roll down the road to the next class. We shall see them again next term.

In this way, many of the boys of today are getting a new light on farming and, as a consequence, will early learn many of the good signs, as well as the numerous warnings, along the way toward successful agriculture. Many of them, without doubt, will have a deep abiding interest in agriculture and, largely because of this, will make it a go, as has Mr. Carey.



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DETROIT, DECEMBER 15, 1923

## CURRENT COMMENT

Everything is uncertain except death and taxes, and farm taxes during the past few years have almost been comparable to death.

One of our economists predicts a promising future. He says that in a few years the farmer will be better off than his city cousin.

## The Marketing Problem

WHILE Michigan farmers are making some progress in the development of cooperative marketing, they have yet a long way to go before the marketing problem is solved. If we are to reach an early and satisfactory solution of this problem, we must all do some constructive thinking along this line, both individually and collectively and then act on the conclusions reached in an intelligent manner.

The principle of cooperative marketing as a means of solving the problem is so essentially sound that there are few farmers who have given the matter careful thought, who do not recognize it as the best, if not the only available solution of the problem. In addition to this it has been so well demonstrated that cooperative organization along commodity lines is the most effective type of marketing organization that there is not much division of opinion among thinking farmers on this point.

This is real progress toward the desired end of a successful solution of the problem. It may also be said that it is satisfactory progress, when the difficulties involved in developing a new program of such magnitude are considered.

That the visible results of this program, as it has been worked out to date in this state, are not wholly satisfactory to many of the farmers who have aided in its promotion, is too evident to be disregarded, when the desirability of the early solution of the problem is considered. It is our belief that a full and frank discussion of the whole problem from a disinterested standpoint would clarify the situation and aid in the crystallization of opinion among the farmers of the state to an extent which would materially aid in hastening the ultimate solution of the problem, and to this end we have determined to discuss and to invite the discussion of all phases of the problem in our columns at this time.

We shall aim and undertake to base this discussion wholly on well established or clearly apparent facts, with

a view to making it constructive, rather than critical, and trust that open forum discussions in our columns by interested readers may be similarly directed.

Such a friendly discussion can do no harm. It should accomplish some good and bring about a better mutual understanding of the problem involved and how it can be best and most quickly solved.

## Expansion vs. Prosperity

WE have read with interest an account of the controversy between the Secretary of Agriculture and the National Real Estate Board regarding the best policy to follow in the matter of our raw lands.

Naturally, the real estate men are anxious to bring in colonies to take up the remaining available agricultural land, while the secretary points out that this would tend to aggravate the discouraging situation from which the farmer has just begun to emerge.

Some time ago, the development bureaus of Michigan were confronted with this matter. They finally chose to take the side defended by the Secretary of Agriculture. As a result, they have discontinued, almost entirely, the expenditure of funds in advertising for additional settlers that they might have more energy and funds to assist the men and women now on the land in making good.

Farmers generally are in full sympathy with the position of the Secretary of Agriculture and the development bureaus in this matter. Any considerable expansion of production area is most certain to delay the time when agriculture will stand on a par with other industries. When the adjustment between agriculture and the commercial and manufacturing world is complete and our consumption and production are more nearly balanced, farming is bound to be remunerative. Then, the work of colonizing our remaining raw lands should become easy.

## The Annual Round-Up

TIME for the annual round-up is near at hand. We should be thinking about it. It will not be necessary to saddle the cow ponies nor uncoil the lariat. A pencil and plenty of paper, your old check stubs and bank book, day-book or memorandum pad are all the equipment that is required.

Any sort of weather is suitable for the farmers' round-up. The days that hover around New Year's Day are ideal. Other work is not usually too pressing at that time, and it is a good plan to strike a balance of the year's

business, and thus learn where we stand financially at the close of the old year and the beginning of the new.

A few days spent with the pencil, such records as may be available, and our thoughts, will teach us many things about our business. In the absence of exact figures, estimates, carefully made, may be quite satisfactory; in which case, we should be perfectly honest with ourselves, and remember that we are trying to learn things, not prove or disprove them.

There is an endless number of questions that will come up for consideration once we set ourselves to thinking about them, and there is a fairly accurate answer to most of them if we will dig in and find it. Truly enough, the answer may not always be what we would like to have it, but it will not hurt us to learn the facts, and the facts will give us some rather definite information upon which to base our farming operations for the coming year.

## A Philosophy of Life

AS we go through our earthly toils, through sweat expended but not rewarded, through the vales of discouragement and despair, do we go as dumb, driven cattle or as upright, sun-seeking human beings?

It seems that only too often we travel life's journey even less philosophically than our dumb friends. They accept mutely the inevitable and forget it, while we often, with our active minds, are wont to add doleful decorations to our already drab surroundings.

The human mind can be our greatest asset; it can also be our greatest liability. Each of us determine, often unconsciously, on which side of the human ledger our minds are to be. If we can look at the sun while the thorns prick our feet, the pricking of the thorns will not be noticed so much. But if we are wont to be doleful we can make each thorn prick seem an almost unbearable torture.

It has been the clinging to an idea, to a philosophy of life, that has made our great men great. They have accepted each buffet as a challenge to greater things, or perhaps as a lesson which was to teach a greater appreciation of the good things of life.

The good and the bad are about us. Each of us alone makes his choice. The good will repay all it costs; the bad grows greater in cost and never gives a reward.

Man is the only one who can pull himself by his bootstraps to a bigger and happier life. So, if in despair, why not take hold of a philosophy which involves an appreciation of the little

sunbeams of life? It will help you, even where you are now.

## For Better Immigrants

THERE is no doubt but that we need some change in our immigration laws as there are too many restaurants and fruit stands now being opened, while there are not enough of the kind of people who make good artisans and farmers.

Back in the eighteen nineties this condition did not prevail. Then our incoming population consisted mostly of the sturdy north European folks who knew how to farm, and did so with credit to themselves and rural America. Michigan is proud to have many of them within her borders.

While the present immigration laws restrict, they still let in a too great proportion of those who say, "Yes, we have no bananas today." Often their characteristic restlessness, and radical turn of mind tend to disturb the peace of the country.

One of the things put into the congressional hopper is an immigration bill limiting the number of immigrants to two per cent instead of three, as it is now, the quotas to be based on the number of the various nationalities in the country in 1890 instead of 1910, the basis of the present bill. This will permit more of the northern European folks to come in, and decrease the number of incoming southern European people.

## The Week Before Xmas

MAYBE the night before Xmas is as still as a mouse stealin' cheese, but the week before ain't. It's somethin' like the mouse chewin' several boards tryin' to get to the cheese.

Mornin', noon and night, all I hear is about Xmas; what somebody is goin' to give somebody, and what somebody wants and ain't goin' to get. They's wonderin' whether they should give somebody else somethin', 'cause somebody else gave them somethin' last year, and they is wonderin' how much what somebody else gave them cost,

so they kin spend as much but no more, and so forth and etc.

Sophie is keepin' awful busy sewin' on somethin' I dasen't look at without gettin' bashful, fer somebody else's wife,

and she's got her sewin' machine right where my nice big chair used to set by the bay window. She don't care when she gets dinner ready, so long as she kin get them what-you-call-em's done. My comfort and appetite ain't got no considerashun these days, even if they are of considerable consequence to me.

Sari, Sammie and Babe just thinks I'm a millionaire. They want me to buy a railroad and a Oughto and a house and a piano and a buggy, and so forth and etc. Of course, they's just toys, but I'm goin' to fool them; I'm goin' to buy Sari one of them ventrilquist dolls what kin say "mama" without openin' her mouth. (I just wonder what she would say if she did open her mouth). And Sammie? Sophie, she won't let me buy him a drum, 'cause it makes too much noise, so I'm goin' to buy a tootin' horn instead.

I ain't goin' to tell you what I'm goin' to buy Babe, 'cause it wouldn't be nice. But, you know, I gotta carry Babe lots.

Sophie is what you call a problem fer me. She's got purty near everything she wants. Her dress we bought in 1919, and it ain't got no holes in it yet, and she put new feet in her stockin's the other day, and her shoes has been half-soled and they shine up purty good, so I guess I gotta get her some of them flapper ear rings what'll hold her ears down so she kin hear better.

HY SYCKLE

## Our Farmers Shake Down International Prizes

AS we go to press, returns from the judging at the great International Live Stock and Grain and Hay Show, held at Chicago, are incomplete. The following information, however, has been wired to us and we hasten to tell our readers of the standing of Michigan in a number of the classes.

Of the twenty-five prizes offered for soft red winter wheat, Michigan farmers took twelve.

The first five on white wheat were awarded to exhibitors from Michigan.

Of the thirty prizes for rye, exhibitors from this state took sixteen.

In barley, where thirty prizes were offered, fourteen came to this state.

Twenty of the thirty places in the oat class were captured by Michigan farmers.

On both beans and peas three of the first five prizes come to Michigan.

Six prizes out of ten on soy-beans were taken on entries from this state.

The judges gave to a Michigan exhibitor, sweepstakes on hay. The Grand Champion Belgian mare was exhibited by the Michigan Agricultural College.

On hogs forty ribbons were captured by exhibits from the Agricultural College at East Lansing.

A detailed report of the big show will be given our readers in a later issue.



# As Ye Sow, So Shall Ye Reap

*Farmer Discovers that Small Matters are Sometimes Very Important*

By E. F. Crane

**E**XPERIENCE is a dear school, but fools will learn in no other." As I look back over the last five years I realize that Benjamin Franklin was not guessing—he knew.

I spent most of my life in the city. As the proprietor of a business house I knew practically nothing of farming. I realize now that my associates were in the same position as I, but that did not keep us from discussing the farmer at luncheons, clubs, or any other place that several of us got together. Paper profits were enormous, my health was failing, and I was tired of the city. I decided to sell my business and become a gentleman farmer.

During the six months previous to the time I embarked upon my new career I read all of the general information concerning farming that I could get. By the time I was settled in my new home I considered myself well equipped to proceed with my new profession. As I look back on that time now I realize that I did not have even a basis upon which to build the store of knowledge it was necessary for me to acquire before I could hope to succeed.

I started by buying a run-down farm about fourteen miles from the city. In my opinion the owner had been lazy and shiftless because of lack of interest in his work, and I was getting a bargain. I paid dearly for my egotism in thinking that I could beat another man at his own game. In addition to the land being poor, the implements were in such bad condition that many of them had to be replaced. After having replaced several machines at the prevailing high prices I decided to see what my neighbors might have to offer. I posted a notice in the general store to the effect that I was in the market for some good second-hand equipment.

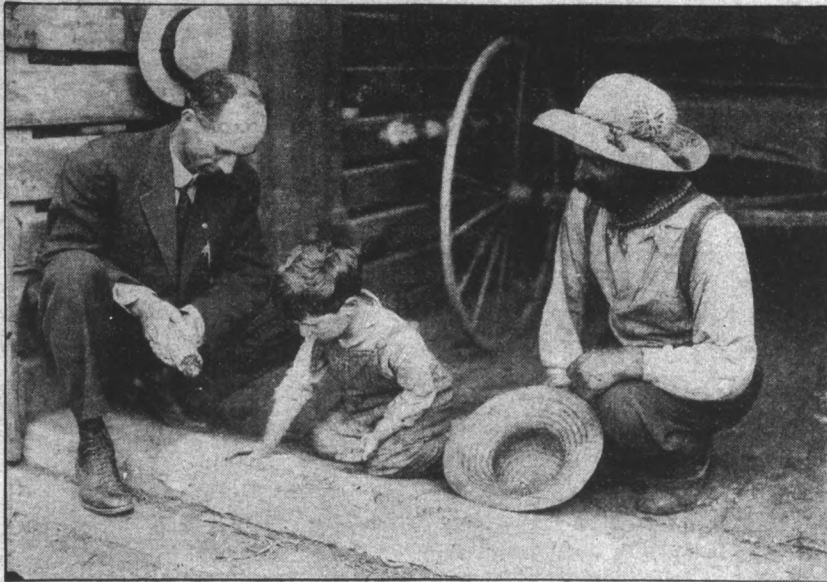
I was an angel to that community. Everything destined for the scrap heap, and some things that I suspect were already there, immediately assumed a value. By early summer, I was the possessor of the best looking junk pile in the vicinity, but in no case was I so badly "stuck" as with my seeds, which I purchased from a local dealer.

I spared neither time nor expense in

preparing my ground for planting. I followed the best prescribed methods and placed my fields in what I considered perfect condition before a seed was sown. My experiences since that time have taught me that my cultivation preparatory to planting was one of the few things that I did right. After the seed was in the ground I indulged in a mental picture of it at maturity. It resembled the advertising pictures sent out by a real estate

one regrettable experience I was willing to try anything, and decided to try it before planting the following year.

When purchasing seeds for the previous year I had bought on the theory that it was better to have too much than too little. As a result, I still had, in the granary, seed of practically every kind that I had planted. I took a sample of each and, with the cooperation of a son who, though small, was a most interesting associate, went to



Occasionally a Neighbor Would Drop in and Watch Son and Me at Our Task.

dealer. Picture my chagrin when I gazed upon acre after acre that resembled nothing so much as an artist's palette. In some fields I had most of the colors of the rainbow, while in others there were huge spots that were sparsely grown, or almost barren. There could be only one solution to the question—inferior seed.

I took the many jocular remarks that were passed for my benefit as best I could and determined not to be caught again. I had heard of seed testing but the operation was not practiced by my neighbors and I had considered it a waste of time. After this

work. At the expiration of the first week I was firmly convinced that the next year would be a bumper one for crops. I felt that I had a corner on all of the adulterated seed in the world.

In addition to the wheat, which I knew I was purchasing, we found the seeds of the sand burr, wild oats, chess (or cheat seeds), as well as darnel, cockle, and the much dreaded frenchwood. The oats test yielded samples of wild oats, chess, bull mustard, wild mustard, and ragweed. To the alfalfa we were indebted for specimens of dock, wild carrot, clover dod-

der, night flowering catchfly, and others. The rest of the grains tested produced practically the same results with the exception of the clover. It was worse, containing over thirty different varieties of seeds, prominent among which were clover dodder, bladder champion, night flowering catchfly, frenchweed, wild mustard, wild carrot, and rat-tailed plantain.

The tests for adulteration had been so productive that we decided to test for germination. In testing corn we used the rag doll type of tester. It was evident from the result that the early freeze of the previous fall had affected our seed, as forty per cent of that tested germinated less than eighty per cent. In testing our forage seeds we used a soil test and they showed to better advantage. However, there was a comparatively small amount of them on hand, and the adulteration test had shown their grade to be so poor that we decided to discard them and make a fresh start.

This time we tested samples of every different kind of seed that we had bought. We knew we were getting the best possible grades before we purchased, and the result justified the time and labor expended in obtaining them. Corn was our best crop and we averaged forty-nine bushels per acre from a field that had not yielded thirty the year before. Our crops were the surprise of the neighborhood and I received congratulations where I had received ridicule the previous year.

I have followed this system since that time with uniform success and, for the past two years, my farm has been one of the show places of the neighborhood. It is pointed to with pride by the same men who ridiculed me at the end of my first year, but the biggest compliment paid me was when they followed in my footsteps. There are seventeen men in my community who planted tested seeds this year. They realize that enough hazards are encountered after the seeds are in the ground without making a positive discount on the yield by planting inferior seeds and are as firmly convinced as I that it is the only method by which they can insure a successful crop.

## Getting Cows Without Cash

*Interesting Plans of Financing the Dairy Business —By L. A. Chase*

**D**URING the past year a successful effort has been made in several counties of the Upper Peninsula to finance an improved dairy farming program with the aid of capital secured from banks and business men, or through the organization of stock companies participated in by farmers and business men alike.

The capital thus provided is employed in the purchase of high-grade and pure-bred dairy cattle, commonly imported from some high-class dairy section outside the district. The so-called "Ashland Plan" has been presented to farmers through a series of meetings at various times and places, and has been followed with such variations as local conditions seem to call for.

The form of contract used in Gogebic county states that the would-be purchaser of cattle applies to three persons named in the contract as trustees appointed by the Ironwood banks that are to underwrite the financing, for a loan to enable him to make the desired purchase. The number and kind of cows to be purchased are stated in the contract. The applicant makes a statement of his resources and liabilities with his application.

This calls for a description of the acreage of land owned, including acres cleared and partly cleared, with the value thereof; the number of horses and cattle owned and their value; and

machinery and other resources of the applicant. Under liabilities, there is place for the statement of debts owed and the security therefor.

The terms of payment of the loan

thus sought calls for payment in three years with interest at seven per cent, interest being payable quarterly. The applicant agrees to sell all his milk, cream or butter produced, except that required for family use, and from the proceeds of these sales there must be paid out monthly to the trustees for the loan, a sum not less than three dollars for each cow so purchased, until the loan with interest is fully paid off.

The applicant agrees to breed the cows purchased from the proceeds of this loan to a registered pure-bred sire of the same breed as the cows and to raise all the heifer calves. The applicant agrees to weigh the milk of each cow daily, test it once monthly and keep a record of these results, which, it is recognized, can best be done through membership in a cow-testing association.

The applicant also agrees to adopt modern feeding practices as laid down by the county agricultural agent, this to insure better returns from the cow, it being recognized that the old "bran and middling method is too expensive." The applicant agrees to purchase (Continued on page 625).

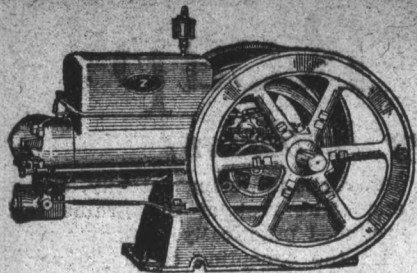
### Shop Now and Mail Early

**W**HILE the entire postal organization of the United States is making greater preparations to take care of the holiday business this year than ever before, still the public by a little thought and consideration in the matter of early shopping and early mailing, thereby spreading the holiday load over several days, can be of far greater assistance than any expenditure of money or temporary expansion of floor space, equipment and personnel that the post office department may be able to effect. The entire solution of the holiday postal problem is really with the public—SHOP NOW AND MAIL EARLY.

Parcels and greetings for delivery within one day's travel should be mailed not later than December 21; two days' travel, the eighteenth; three days' travel, the sixteenth, and for more distant points, on or before the fifteenth. If cards and parcels are so posted, congestion at post offices, railway terminals and in railway mail cars will be largely avoided and delivery assured before Christmas.

Careful packing, addressing in full with ink, including the name and location of both the sender and the addressee, will facilitate handling and avoid disappointment.





# Runs 24 hours a day FAIRBANKS-MORSE 'Z' engine

Geo. Strahan, South Jacksonville, Fla., says: "The 'Z' engine which I have used for more than a year has exceeded our greatest expectations. At times we operate it for stretches of 24 hours duration. Very economical. Requires no attention whatever." ... P. W. Ostwald, Baker, Oregon, says: "The 'Z' engine bought in 1916 is the most reliable piece of machinery I ever owned."

Over 350,000 users have approved the "Z" Engine. No matter what your power requirements, there is a "Z" Engine to exactly suit your needs. Over 5,000 dealers carry these engines in stock and will save you money on freight.

1 1/2 H.P. "Z" (Battery Equip)	\$ 54
1 1/2 H.P. "Z" (Magneto Equip)	74
3 H.P. "Z" (Battery Equip)	90
3 H.P. "Z" (Magneto Equip)	110
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(350)

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for cold  
weather  
—get a  
warm,  
long-  
wearing,  
comfort-  
able



Reg. U. S. Pat. Off.

## Brown's Beach Jacket

The best cold-weather garment for outdoor workers, made with the same care and of the same high-quality material which first gave it its reputation many years ago. It is as warm as an overcoat, comfortable to work in, and can be washed without losing its shape or warmth. Three styles—coat with or without collar, and vest.

Ask your dealer.

**BROWN'S BEACH JACKET COMPANY**  
Worcester, Massachusetts



## AGRICULTURAL NEWS

### WOULD INCREASE MOTOR TAXATION.

IN answer to the question, "What part of the burden of taxation for highways should be borne by the motor vehicle to place it on an equality with the steam and electric railways," the sub-committee of the United States Chamber of Commerce on the taxation of transportation lays down the principal that it should pay the cost of maintaining the improved highways it uses in as good condition as when they were built.

This declaration coming from the United States Chamber of Commerce is looked upon as backing a movement, said to be promoted by the railroads, to meet motor transportation competition by means of increased taxes upon motor vehicles.

### PEAT EXPERTS TO HOLD CONFAB.

THE seventeenth annual convention of the American Peat Society will be held at the Washington Hotel, in Washington, on December 6-8, when leading authorities on muck and peat from the United States and foreign countries will meet in discussion. Papers will be presented on the use of muck and peat as fuel, as fertilizer, for cultivation in natural position in growing crops and other phases of the industry.

In the United States large areas of peat and muck are found in Wisconsin, Michigan, Indiana, Ohio, New York, New Jersey, Virginia, North Carolina and Florida.

### GET DATA ON COOPERATIVES.

REPORTS from 8,135 farmers' business organizations, located in forty-eight states, and marketing more than 100 different commodities, have been received by the United States Department of Agriculture. The department has also received reports regarding some one thousand farmers' cooperative organizations that have gone out of business during the past ten years. A few of these associations are functioning as general selling agencies for the farmer members, but the greater number are interested in the marketing of one commodity, or a few commodities.

Of the active associations reporting, thirty-one per cent are engaged in the handling of grain, twenty-one per cent in the marketing of dairy products, over fourteen per cent in the marketing of live stock, and over eleven per cent in the marketing of fresh fruits and vegetables.

When the other several thousand farmers' associations send in their reports, the department will have a fund of information which will enable it to formulate a helpful program for the betterment of cooperative selling and marketing.

### WANT LOWER FREIGHT RATES.

FARMERS are complaining that freight rates are too high, and strong pressure will be brought to bear in congress this winter to amend the transportation act in some way that will insure lower freight rates on farm products. This agitation for lower rates has been so loud that the fact has evidently been overlooked that, owing to reduction in freight rates since 1921 the freight bill in this country was \$431,000,000 less during the first eight months of 1923 than it would have been if rate levels had remained unchanged.

It is declared by the Bureau of Railway Economics that these savings resulted chiefly from reduction in the rates on agricultural products, which

became effective January 1, 1922, and from the general reduction of ten per cent made in all rates on July 1, 1922.

### LET THE ROADS DO IT, THEY SAY.

VOLUNTARY railroad consolidation rather than under legislative compulsion is advocated by the United States Chamber of Commerce committee on railroad consolidation. Improved train service and more economical operation are among the advantages claimed for consolidation. This committee also recommended the enactment of a law permitting railroads to take out federal charters. It is believed that if railroad consolidation were worked out as anticipated the railroads in the United States would be owned and operated by corporations as large or larger than those that control the largest existing systems.

### FACILITIES MORE THAN MEET DEMAND.

SALE of another \$10,000,000 Intermediate Credit Bank four and one-half per cent debenture bonds of six months maturity, is announced by Commissioner Cooper, of the Federal Farm Loan Board.

This will be the last sale for the present crop year, being the third of the kind and making a total of \$30,000,000 obtained by the sale of bonds for short-time credit to farmers' co-operatives. The Agricultural Credits Act appropriated \$60,000,000 as the bank's capital, but thus far the board has found it necessary to draw only \$20,000,000 of this capital.

### FREE SEED BILL INTRODUCED.

ONE of the first bills introduced in the house was one providing for the restoration of the congressional free seed distribution. Representative Langley, of Kentucky, who introduced the bill, says he is prepared to make a strong fight for this bill, which carries a \$500,000 appropriation for the purchase of seeds.

### FEWER FARMERS—MORE PRODUCTION.

IN spite of the migration of farmers and farm wage earners to the cities, a larger crop acreage was planted in 1923 than the ten-year average, which is no doubt in part responsible for the unsatisfactory prices at which some farm products are selling. Nevertheless, it is pointed out by Secretary Wallace, the value of eleven lead-

### LOST FARMS.

IT was found by an inquiry through both bankers and farmers as to the number of farm owners and farm tenants who lost their farms or property through foreclosure or voluntary relinquishment, that of the owner farmers in fifteen corn and wheat producing states, on an average over four per cent had lost their farms through foreclosure or bankruptcy, while nearly 4.5 per cent had turned over their farms to creditors without legal process. In addition, more than fifteen per cent were, in fact, bankrupt, but were holding on through leniency of their creditors. Considered by groups of states, the percentage of owner farmers who lost their farms since 1920 was found to be as follows: For five north central states, nearly six per cent; for seven west north central states, over nine per cent, and for three mountain states, nearly twenty per cent. The percentage of tenants who lost their property ran materially higher.

### FAVOR SALE OF MUSCLE SHOALS.

BILLS providing for the sale and lease of Muscle Shoals property to Henry Ford have been introduced by Representatives Madden and McKenzie, of Illinois. Mr. Madden's bill provides for the erection by the government of a steam power plant to replace the Gorgas plant, which was declared by Mr. Ford to be necessary to proper operation of Muscle Shoals, and Mr. McKenzie's bill offering the Muscle Shoals property to Mr. Ford, being the same bill that was reported on favorably by the military affairs committee last winter.

### WHY THE FARM BLOC?

ON December 17, from Station W. R. C., Washington, Senator Arthur Capper will broadcast an address on "Why the Farm Bloc in Congress?"

### PROGRESSIVES WANT HOUSE RULES CHANGED.

THE progressive program in congress includes a provision for a procedure for discharging committees failing to act on bills and placing measures before the house for a vote, and for putting a ban on pocket vetoes by chairmen. Such a change would have a tendency to put an end to pig-eonholing such bills as "truth-in-fabrics," which has been held up in committee for three or four years.

## State Farmers' Clubs Meeting

THE Thirty-first Annual Meeting of the Michigan State Association of Farmers' Clubs was held at the Agricultural College on Tuesday and Wednesday, December 4-5. An excellent program included the discussion of many phases of agriculture and organization work, as well as strictly farmers' club topics. The Tuesday evening session was as usual, a banquet session, the banquet being served by the Home Economics Department of the College.

While the attendance was not as large as that of some of the previous meetings of the organizations, owing to conflicting meetings during the week, the sessions were fully up to the standard in interest and in the enthusiasm exhibited by the delegates present.

Space will not permit the discussion of the many interesting features of the program in detail. The foundation was laid for greater progress of the club

movement in the future, and for a closer working arrangement with other farmers' organizations in the state through a resolution adopted requiring the newly elected president to promote this work. New officers elected for the ensuing year were as follows:

President, W. A. Cutler, of Grass Lake; vice-president, S. J. Skinner, of Belding; secretary-treasurer, Mrs. I. R. Johnson, of Rushton; directors, E. W. Fenton, of Richmond; Earl Severance, of Wixom.

Resolutions were adopted covering the following points:

#### State Affairs.

1. Favoring the restoration of representative state government by the trative board or the modification of its elimination of the extraordinary power now possessed by the governor through the abolition of the administrative powers.

2. Reduction of operating expense of state government by removal of (Continued on page 627).





## Dollars from Winter Days

**H**OW to utilize the winter days is an ever-increasing problem to many farmers. Here is how a few of our readers are making use of the winter months.

### BAILS HAY WITH HOME-MADE PRESS.

**O**NE method I have of using the winter months is preparing the crops for market, instead of spending a lot of money to get it done. I do the baling of the hay and straw by hand. I made a box so as to hook the corners together, stand it on end, tramp full, place chain around box

every month the tester comes to my place and checks up on the cows and their feed, showing me the ones which are the most profitable, also, prepares a formula for a balanced ration, using the feeds I have on hand first, and buying the balance. Under this system a cow which does not show a profit does not stay around my place long.

The pleasure side comes in when I can go to a clean, warm stable on a cold, stormy day, do up the chores and feel that the bossies are paying me for my labor, and doing it with pleasure, too, while some of the other fellows are grumbling about the weather, hard times, and everything in general.—R. M. Stewart.

### The Chore Bug-a-Boo

**W**HAT a wealth of suggestions there must be on the thousands of farms of the state in short-cutting the everlasting job of doing chores. If we could get these ideas together and select the most serviceable, what a blessing in the saving of time and energy it would be to the farmer.

We want to coax these ideas out in the open where they can be passed around. Here is our proposal. For every suggestion that seems worth while we are going to send to the contributor, one dollar. Mail your letter to me, The Handy Man, Michigan Farmer, Detroit, not later than December 19.

and timber across top, then press with lifting jack, giving the length of jack, then catch with prop, trip the jack, put block under, then repeat until hay is brought to proper size. Bales can be made in this way in ten minutes each, with only one man at press and one man in mow. I made the box so as to have the bales larger than ordinary.—Gilbert Ferris.

### DOES IT THROUGH GOOD COWS.

**I** HAVE been reading with interest the letters of the Handyman's Corner, so will give you my idea of increasing winter profits. It seems to me that the most pleasant and profitable way to increase or make any profit at all through the winter months is through the dairy cow.

I have a herd of pure-bred Guernseys which I expect to make me a profit during the coming months.

In the first place, I belong to the county cow-testing association, and

### HAS A VARIETY OF WINTER WORK.

**S**UMMER profits depend upon winter preparations. These include keeping as many fall and winter fresh cows as possible, hauling the manure to fields as rapidly as it is made, feeding the separated milk to comfortably housed fall pigs, saving the tools by protection from weather, and through proper repairing, feeding up all fodder and coarse grain on the farm, and getting everything in ship-shape for the summer campaign.—George W. Rice.

### COWS AND HENS DO IT.

**I** WILL explain, in a few words, how I keep busy during the winter months, pay expenses, and make a little income. I have a farm of eighty acres, on which we keep twenty-seven pure-bred Holsteins and a few hundred White Leghorn chickens.

We plan to have twelve cows milking the year around, and from these we secure an average of \$200 a month throughout the year. Every morning after the cattle are milked and the barns cleaned, the manure is taken to the fields. I raise all the feed consumed by the herd.

We have two coops of White Leghorn chickens, one hundred and twenty-five in each coop. These coops are cleaned every morning. The chickens are well cared for and they return around \$100 per month for the year. We raise all the feed required for the chickens, including green feed. Each year, we hatch about four hundred chickens, from which our laying stock is selected. We get \$1.00 for the yearling hens in the fall.

This keeps me busy throughout the winter months. I usually work from five in the morning until seven at night. My wife and I do all this work, only hiring at threshing and silo-filling time.—F. A. Beasore.

## Poultry Producers Pow-wow

**G**RAND RAPIDS had a regular poultry get-together during the week of Thanksgiving. Not only the chicken men, but the chickens themselves were there, not the fur-coated, silk-stockinged variety, but the feather kind.

The fundamental occasion of this chicken convocation was the Annual Michigan Poultry Show, staged by the West Michigan Poultry Association. The accessory occasions were the meeting of the Michigan Poultry Producers' Association, culling schools, students' judging contests, and rooster fights.

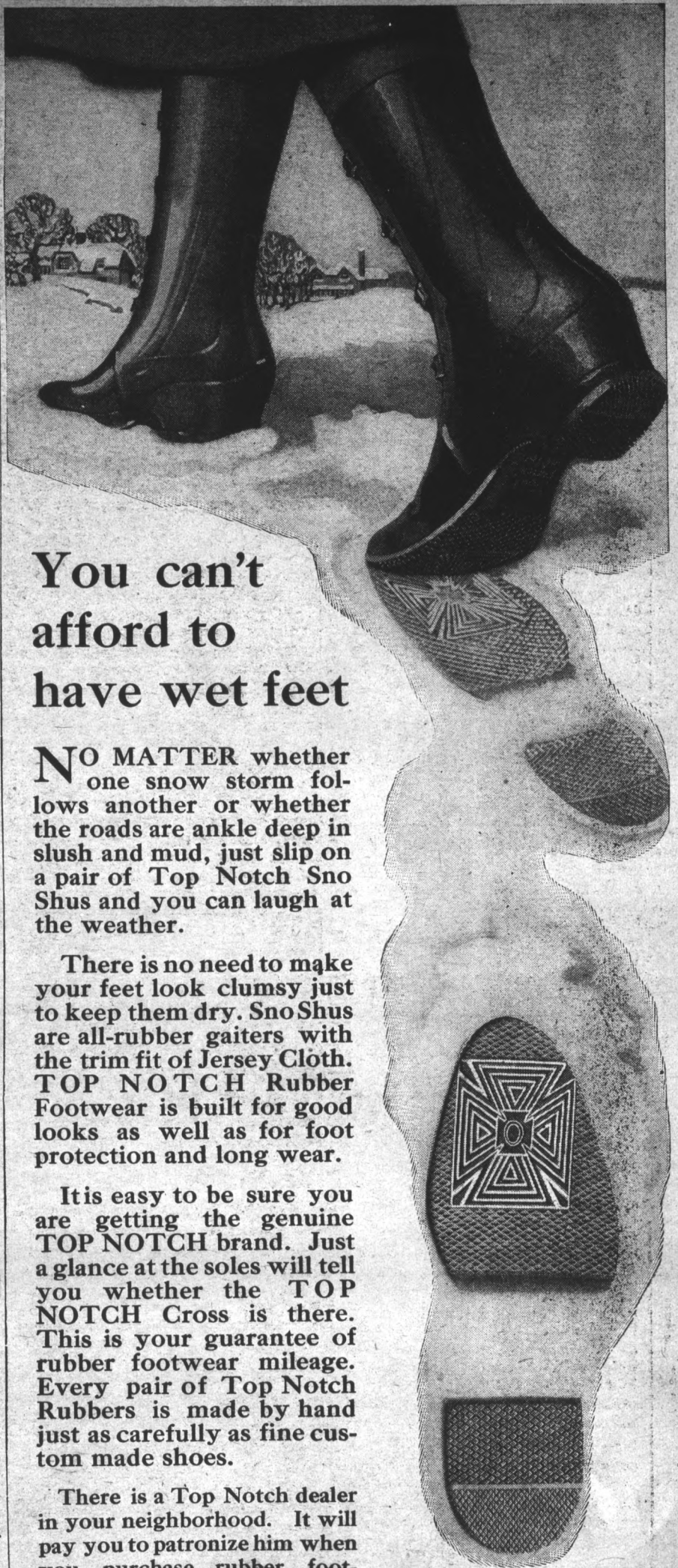
The poultry show had everything, from banty roosters to turkeys, from fine-feathered Rocks and Reds to bedraggled-looking Leghorns, which were

so busy laying that they had not had time to change their clothes for the show.

The culling schools were instructed by Professor Foreman, and others, of M. A. C. The students' contests were to determine the M. A. C. team which would go to the big show at Chicago to compete with teams from other states, and the cock fight was a tame affair because the officers of the law would not allow the roosters to follow standard fistic regulations.

At the poultry producers' meeting some real good advice was given but not taken. In order that the words of wisdom there given may be spread to further fields, we give a condensation of them here.

(Continued on page 624).



You can't afford to have wet feet

**N**O MATTER whether one snow storm follows another or whether the roads are ankle deep in slush and mud, just slip on a pair of Top Notch Sno Shus and you can laugh at the weather.

There is no need to make your feet look clumsy just to keep them dry. Sno Shus are all-rubber gaiters with the trim fit of Jersey Cloth. TOP NOTCH Rubber Footwear is built for good looks as well as for foot protection and long wear.

It is easy to be sure you are getting the genuine TOP NOTCH brand. Just a glance at the soles will tell you whether the TOP NOTCH Cross is there. This is your guarantee of rubber footwear mileage. Every pair of Top Notch Rubbers is made by hand just as carefully as fine custom made shoes.

There is a Top Notch dealer in your neighborhood. It will pay you to patronize him when you purchase rubber footwear of any kind because while it costs no more than the ordinary kind, it will give greater service.

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Makers of Top Notch Rubber Footwear

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**TOP NOTCH**  
A GUARANTEE  OF MILEAGE





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9. Lamp is Handsomely Designed—Equipped With Universal Shade Holder.
10. Lantern has Mica Globe With Reflector—Can't Blow Out in Any Wind. Rain-proof, Bug-proof.
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## THIS LOG AND TREE SAW \$21.95

Fitted with Atkins Silver Steel Guaranteed Saw



9 Cards in 10 Hours by one man. It's King of the woods. Catalog Y44 Free. Established 1890.  
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Write for catalog and state number of trees you tap. We also manufacture L.I.L. evaporators and can furnish repairs for same.  
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You furnish the raw beef or horse hides or raw furs; we do the tanning in our own plant. We make up coats, robes, gloves, mittens, caps, vests. The finest kind of fur work done on ladies' fine furs coats, capes, chokers, horse hide shoe leather, coats, finest of sheep lined coats.

Send for circulars, tell us what you have to tan. We answer.  
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## CUT FENCE COST IN HALF



Investigate new "Galvannealing" process of rust-proofing wire—see how you can get two to three times the wear out of  
**SQUARE DEAL FENCE**

made by new process that amalgamates heavy zinc coating into wire instead of merely taping thin coating on like ordinary galvanizing.  
FREE to landowners. New fence catalog describing "Galvannealed" Square Deal and Ropp's New Calculator (worth \$50). Write:  
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## OUR SERVICE DEPARTMENT

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

### RE-RENTING BEFORE LEASE IS TERMINATED.

I traded my crops, stock and tools on my farm for a man's equity in a house, and gave him three year's lease on said farm. Both the man and his wife signed the papers. After being two years on the farm, he has called a sale and intends to leave. He has until next October. Can I sell or rent the farm before October?—A. W. F.

The statement indicates that the party mentioned has a lease for a term of three years not yet expired. Announcing a sale, or any communication to anyone other than the lessor, does not amount to a surrender of the lease; and until there is a surrender or some other termination of the lease, the lessor has no right of possession and can give no such right to anyone else. There is nothing to prevent his making a new lease at any time to begin upon the termination of the prior lease.—Rood.

### PERIOD OF FORECLOSURE.

How long can a person stay on a farm after he discontinues paying interest on the principal? If landlord forecloses, how long can a person stay?—H. B.

If the property was deeded to the purchaser and he has given a mortgage back it takes about fifteen months to foreclose and get possession. If there was merely a land contract and the purchaser has no legal title, his rights may be foreclosed in about forty days and possession restored to the seller by the sheriff or constable.—Rood.

### AGE OF MARRIAGE.

A girl got married at the age of fifteen, parents saying she was sixteen. Was it a legal marriage? What can be done now? Can a girl get married at the age of eighteen if her parents object? How old must a girl be to get married without her parents' consent?—A. R.

The statute forbids the clerk to issue marriage license for a female under the age of eighteen years without the personal consent of one of her parents or her legal guardian. If she is older than that no consent is necessary. Marriage under the age of consent and without the consent of the parent is not void, and can be avoided only by the female. The person illegally performing the license is criminally liable.—Rood.

### ROAD NEGLECTED.

I live on a town-line road, which was the main traveled road a few years ago. Now there is a new gravel road a mile from here, and this road isn't fit for a dog to travel on. They pay no attention to it. It has a ditch washed in the middle of it, but they say they haven't money to spend on this road because there isn't enough travel on it. Can we force them to fix up the road?—H. B.

If the highway commissioner will not spend any money on the road, bring the matter up at the next town meeting and get an appropriation voted.—Rood.

### FATHER WOULD GET PROPERTY.

I am twenty-two years of age, own a small piece of property and have a bank savings account. My only living relatives are a father, step-mother and half-brother. In case I should die before any of the above, who would receive my real and personal property as above noted, if I have no will made? If I wish that my father receive the above, must I make a will?—J. C.

Under the circumstances stated the whole property, real and personal, after the debts and administration expenses, would go to the father without any will being made, and if that is the desire a will would be useless except to name the executor; and if

no executor is named, the father would be permitted to name the administrator.—Rood.

### TURNING COWS OUT IN COLD WEATHER.

I would like to know if turning milking cows out in the cold, dries them up?—S. C.

A cow, to do her best, must be kept comfortable. She is not comfortable when she is compelled to stay out in the cold, winter weather.

Have a warm, dry, well-lighted stable and keep her indoors when the weather is very cold and stormy. But as soon as the weather modifies let her out for exercise, but put her back before she becomes chilled. Don't have the stable too warm. Forty or fifty degrees is about right.

### POISON FOR NOXIOUS ANIMALS.

Will you please post me on the law as to using poison for noxious animals? I understand it is not lawful to use poison, but the state hunters are using it every winter in the Upper Peninsula. If it is lawful for them, why not for a farmer?—G. F.

Compiled Laws 1915, Section 15353, forbidding the mixture of poisonous substances and exposing them where they might be eaten by horses, cattle, dogs or other animals of another, expressly permits the placing of poisons on the premises of the owner, outside of an incorporated city or village, and with proper safeguards, for the destruction of predatory or dangerous prowling animals.—Rood.

### TO PREVENT MULBERRIES BEARING FRUIT.

Would like to know whether there is anything that can be done to prevent a mulberry tree from bearing fruit. We have a large one in our front yard which never fails to bear. The fruit draws the flies and chickens, which makes it very disagreeable.—E. V. K.

The mulberry tree has two kinds of flowers—the male flowers, which produce pollen but do not produce fruit, and the female flowers which produce fruit. These two kinds of flowers are on separate trees. In most plants it is necessary for the pollen to reach the pistil in order that the fruit may develop. This is why an apple tree covered with netting so that bees and other insects can not reach the flowers will not produce fruit, even though the pollen is produced in the same flowers with the pistils, for, in the case of the apple, the pollen, being somewhat sticky, can not reach the pistil unless carried by an insect. Unfortunately, in the case of some kinds of mulberries, fruits will be produced on the female flowers without pollination. These fruits, however, do not contain viable seeds. This being the case, I know of nothing that can be done to prevent the tree from bearing fruit. If it is desired to have a mulberry tree and fruit is not wanted, one should have cuttings taken or trees grafted from male trees. Usually, however, the female trees are preferred because of the fruit, which is attractive to birds and causes these to frequent one's place. Since many of these birds also are destructive to insect enemies of trees and shrubs, and other plants, most people prefer to have the birds, even though the falling mulberry fruits are "messy" for a while.—Bessey.

Vegetable oysters, also known as salsify, may be left in the ground until spring, for freezing does not harm the roots. However, if it is desired to use some of these roots during the winter, part of the crop should be dug up before the ground freezes, and stored in a cool, moist place.

## Renew Your Light Plant



### Sealed Glass Cell

Every UNIVERSAL "NU-SEAL" cell comes to you fully charged, ready to use. No trouble assembling, or filling or charging. Just hook up once, that's all.

### No Cleaning, Ever

Ample space below the plates takes all the sediment till battery is worn out. No danger of short circuiting. An exclusive feature of Universal Batteries.

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No matter what kind of a plant you have, this interesting booklet will show you just how to renew the system with UNIVERSAL BATTERIES. The right size for every Farm Power and Light System made. It also lists Parts for all makes of batteries. "Care of Batteries" is another interesting booklet which will be sent FREE with the new Universal Battery Guide. When you write, mention brand-name and age of your present batteries, so we can give you the correct allowance figure. Write today. (783)

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10-Year Guarantee—Cash or Easy Terms.  
TRY 30 DAYS

**One Man Saws 15 Cords a Day!**

—Easy with the OTTAWA Log Saw! Wood selling for \$3 a cord brings owner \$45 a day. Use 4 H. P. Engine for other work. Wheel mounted—easy to move. Saws faster than 10 men. Shipped from factory or nearest of 10 Branchhouses. Write for FREE Book—"Wood Encyclopedia"—today.  
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## WHY HIS JUDGMENT GREW.

RECENTLY we spent the larger portion of a day with Mike Jones. Mike is a farmer of ordinary attainments. I had been interested in the matter of farmers' judgments. Mike's tests proved to me that on the average farm there is ample opportunity for the manager to exercise initiative and decision.

Before he had gone to the barn in the morning Mike had to decide whether he would take his load of hogs to market that day, or not. Would he, also, include the three calves?

Would it be better for the hired man to search for a little more dead wood



P. L. Zimmer, of St. Clair County, Says this Team is Just as Good as they Look.

in the woodlot for fuel, or bring a load of soft coal from town?

What kind of sheep-feeding racks should he build, and how much material will be required for their construction?

How shall we handle three of the hogs which had gone off their feed?

How shall he protect the watering tanks against freezing this coming winter?

When should he open the silo? Would it be wise to shred the dry corn fodder or feed it in the stalks?

In less than an hour, this man had a dozen questions which required definite decision. I wondered what executive is called upon to answer more questions having a direct relation to the outgo and income of his business than did this farmer?—Burt.

## BANKERS FAVOR COOPERATION.

AT the recent meeting, the American Bankers' Association, in annual convention, declared themselves favorable to cooperative farm marketing. This suggests that our national bankers have awakened to the fact that the cooperative organization has become a permanent institution, and that unless the bankers fall in line with the movement, other means of financing would ultimately be provided. This action of bankers should, therefore, prove a distinct advantage in financing cooperatives.

## MICHIGAN ALFALFA ACREAGE GROWS RAPIDLY.

WE are not fully apprized of the fact that here in Michigan great strides have been made in developing alfalfa in connection with dairying and other live stock activities. This is the case, however.

Since 1919, the alfalfa acreage in this state has increased from 75,000 to nearly a half million acres. Vigorous campaigns by our extension men to spread information on the most effective cultural methods and to secure for the farmers a dependable supply of northern-grown seed has placed the state in an outstanding position regarding this crop. Further, the utility of the crop has been impressed everywhere, particularly with farmers interested in dairying, and cattle and sheep feeding.

Potatoes breathe, so they must have air or they die.

# About Farm Machines and the McCormick-Deering Line

THE U. S. Department of Agriculture has shown that farm equipment is one of the smallest items in the cost of farming, the yearly average being only 4 to 8% of the total.

Farm machines are sold for less money, pound for pound and quality for quality, than any other similar manufactured article. Yet in profitable farming there is nothing more important than good equipment.

Check the cost of your farm machines against the rest of your investment—land, buildings, labor, live stock, etc.—and your figures will probably agree with the average.

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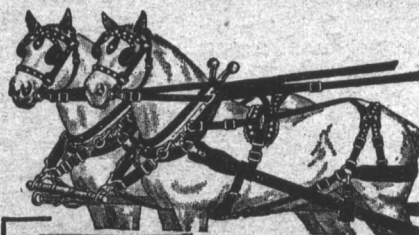
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# Rural Health

By Dr. C. H. Lerrigo

## BUY CHRISTMAS SEALS.

TWENTY years ago the Great White Plague, tuberculosis, was taking the very pick of America's best citizens every year at the rate of 2,020 for every million inhabitants. There sprang into existence the National Tuberculosis Association, and an organized effort was begun to educate the public in health and hygiene and wage a systematic fight against the wasting disease that was stealing the brightest and best of our land. The National Association shot forth branches in every state, and the Michigan Tuberculosis Association was formed. An aggressive campaign was put on to show that fresh air, good food, and rest would cure tuberculosis, that people of tuberculous families were not doomed, that there was hope for prevention and hope for cure.

So well has this campaign against disease been carried on that the last

official report of the United States Census Bureau places the deaths per million from all forms of tuberculosis at less than 1,000. The death rate is therefore better than cut in half, in a period of twenty years. On an estimated population of 110,000,000 we save more than 110,000 lives each year because of this successful fight. More than that, tuberculosis no longer appears to us as a grim spectre of death. We have learned how to conquer. The educational campaign has opened our eyes and we see that tuberculosis, though still a terrible disease, is one with which we may cope successfully.

While we congratulate ourselves on these facts let us keep in mind that the whole campaign against tuberculosis has been financed by the little Christmas Seal. Last year Michigan sold seals to the amount of \$153,293.25, which is 3.9 seals for every man, woman and child. December is the month for the annual seal selling campaign. When the seals come to you, buy as liberally as your means permit. The executive secretary of the Michigan Tuberculosis Association is Mr. T. J. Werle, of Lansing. He will be cheered and heartened by your support.

## GOITER TREATMENT.

I have been an interested reader for some time, on this goiter problem, and I wonder if any one can tell me what iodine to use, and what doses, etc., for a girl of fourteen years of age, who has had symptoms of one for about one year. Shows more at a certain period than other times. Also, does a goiter affect the kidneys?—Mrs. W. W.

For a girl of fourteen the best method of taking iodine for the prevention of goiter is in the form of sodium iodide. A large dose is not necessary. It is always well to have dosage regulated by some physician who is able to study the patient. The same condition that produces the goiter often has a marked effect on the kidneys.

## RED SPOTS THAT ITCH AND SMART.

I am a girl sixteen years of age, and for the past year I have had red spots swell up on my feet, hands and hips, and would like to know what it is. They swell up like that every month. I can notice it more in the cold weather than during the summer. Would it be my blood, and if so, is there any cure for it? I did for a while wash those spots with salt and water, but it didn't do any good. They itch and smart.—M. R.

This is a form of periodic urticaria and probably indicates that the monthly periods are not fully established, but may also be aggravated by some dietary disturbances. No external application will do any good. Attention to general health and special care at the periods of disturbance is advised, but I do not think the condition serious.

## CATCHING PNEUMONIA.

Is it possible for a person to "catch" pneumonia from being in the same room with a patient? I have always understood that the disease came from exposure to severe weather.—L. P.

Pneumonia often follows exposure to severe weather but it is certainly one of the "catching" diseases. I believe this should be more generally known. Many a watching mother lies down with the sick child who has pneumonia, quite unconscious of the fact that she is thereby greatly increasing the probability that she will herself take the disease.

Men of old learned for their own sake; the men of today learn for show.—Confucius.

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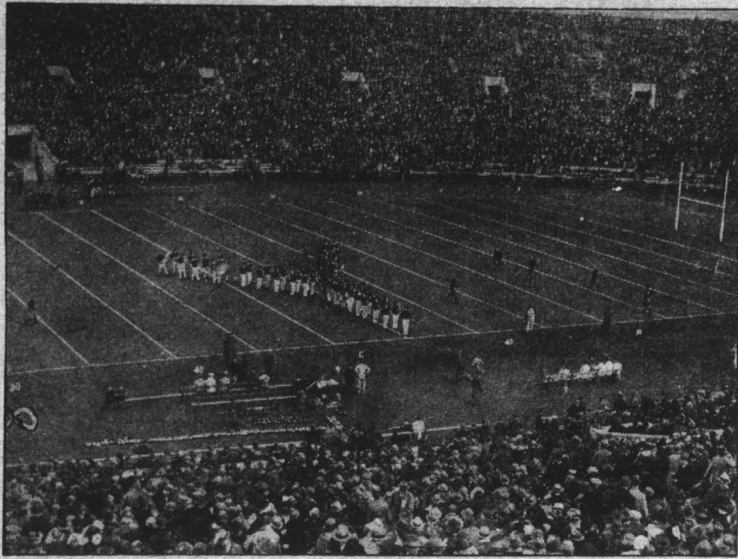




# WORLD EVENTS IN PICTURES



The broken column of this memorial monument symbolizes lives of children killed in accident.



Just before the beginning of the football game with Princeton, the University Band of Yale College formed this Y that spelled victory. They defeated their rival college with a score of 27-0.



Lord Carnegie and Princess Maud were recently married in London in presence of five queens.



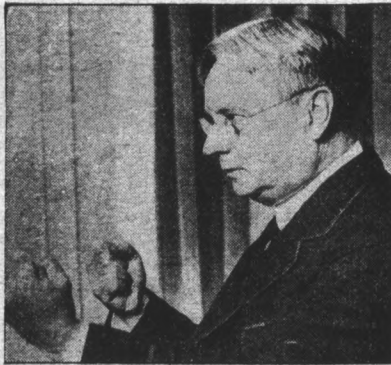
A dozen persons were injured when two bomb explosions were set off at the residences of a Spanish and Italian consul in Philadelphia. Reports have it that anarchists are responsible.



M. Maginot, French minister of war, with an alcohol torch is lighting the Memorial Lamp, which is to burn forever at the tomb of the Unknown Soldier in Paris.



This quiet, mild young Russian prince, with his wife, is credited with being the leader of those who killed Rasputin, hypnotic monk.



Senator Hiram Johnson, California, was first to formally announce candidacy for president.



"An easy life" is that of Marah Farah, Hindu strong woman, who allows this huge boulder to be broken upon her body.



Halide Hanum, the lady in the center dressed in black, is the leader of the feminist forces in Turkey, and organized the country's first Ministry of Education.



Mme. Charissi, with her ten children, is detained by immigration officials, the Greek quota having been exhausted. As family supporter she taught each to become an accomplished dancer.



IN the first place, I want to know how so many accidents can happen in a single plant, just at the wrong time. I want to know why it is that I can go out and fight for a contract, and then lose it because a saw has broken, or an off-bearer, lugging slabs away from the big wheel, can allow one to strike at just the wrong moment and let the saw pick it up and drive it through the boiler, laying up the whole plant for three weeks. I want to know why it is that only about one out of three contracts I land are ever filled. Thayer's got something to do with it, I know. Why? That's another question. But there must be others. I want to know who they are and weed them out. I've only got three and a half years left, and things are going backward instead of forward."

"How you intend to fin' this out?"

"I don't know. I've got one lead—as soon as I'm able to get into town. That may give me a good deal of information; I came out here, at least, in the hope that it would. After that, I'm hazy. How big a telegraph office is there at Tabernacle?"

"How big?" Ba'tiste laughed. "How petite! Eet is about the size of the—what-you-say—the peanut."

"Is there ever a time when the operator isn't there?"

"At noon. He go out to dinner, and he leave open the door. If eet is something you want, walk in."

"Thanks." A strange eagerness was in Houston's eyes. "I think I'll be able to get up tomorrow. Maybe I can walk over there; it's only a mile or two, isn't it?"

But when tomorrow came, it found a white, bandaged figure sitting weakly in front of Ba'tiste's cabin, nothing more. Strength of purpose and strength of being had proved two different things, and now he was quite content to rest there in the May sunshine, to watch the chattering magpies as they went about the work of spring house-building, to study the colors of the hills, the mergings of the tints and deeper hues as the scale ran from brown to green to blue, and finally to the stark red granite and snow whites of Mount Taluchen.

Ba'tiste and his constant companion, Golemar, were making the round of the traps and had been gone for hours. Barry was alone—alone with the beauties of spring in the hills, with the soft call of the meadow lark in the bit of greenery which fringed the still purling stream in the little valley, the song of the breeze through the pines, the sunshine, the warmth—and his problems.

Of these, there were plenty. In the first place, how had Thayer known he was on the way from the east? He had spoken to only two persons—Jenkins, his bookkeeper, and one other. To these two persons he merely had given the information that he was going west on a bit of a vacation. He had deliberately chosen to come in his car, so that there might be every indication, should there be such a thing as a spy in his rather diminutive office, that he merely intended a jaunt through a few states, certainly not a

journey half across the country. But just the same, the news had leaked; Thayer had been informed, and his arrival had been no surprise.

That there had been need for his coming, Barry felt sure. At the least, there was mismanagement at the mill; contract after contract lost just when it should have been gained told him

mean an open book of information to him if only he could reach Tabernacle at the right moment and gain access to the telegraph files without the interference of the agent.

THEN suddenly he ceased his study of the message and returned it to his pocket. Two persons were ap-

## The White Desert

By Courtney Ryley Cooper

### When Birds are Fledged and Gone

By William Leonhardt

My pathway led, through a brambly wood  
With many a tree decayed;  
Near a briary fence where the leaves were dense  
I paused in an open glade.  
And the lurid hue, of a crimson dew  
On the golden foliage fell;  
For the leaves were tossed in the autumn frosts  
That covered each nook and dell.

And a hoary tree, with its leafless limbs  
Was humming a lifeless tune;  
And an oriole's nest that hung on its crest  
Was swayed to the waning croon;  
'Twas whipped and frayed by every blast,  
For many and many a dawn;  
And its battered shape in the wild wind's wake,  
Show'd the birds were fledged and gone.

And the pleasant home the orioles built  
With caution and wondrous care,  
Has its walls decayed, and the nest is frayed  
'Till it's ghastly grim and bare.  
And there comes no cheep, or birdies' peep,  
Or a mother's hovering song,  
O'er a little brood so snugly woo'd,  
For the birds are fledged and gone.

So I journeyed on to a winding stream,  
Where a house stood by the way;  
And the rotten shell but told too well  
Of life in an earlier day.  
Yet the shapeless mass of the chimney's brick  
Still stood in the wreck and ruin,  
And an angel's tongue in my fancy sung  
Of a babe and a mother's cooing.

I heard the shouts of childish glee,  
As I mused in my backward dreaming,  
And the songs and jokes, of the older folks,  
Was myrth, in the lovelight, beaming.  
And the wild winds moan through the chinkless home,  
A dirge, sung ever, and on;  
Who cares, for the memories, soon forgot,  
When the birds are fledged, and gone?

this, if nothing more. But—and he drew a sheet of yellow paper from his pocket and stared hard at it—there was something else, something which had aroused his curiosity to an extent of suspicion, something which might

proaching the cabin from the opposite hill—a girl whom he was glad to see, and a man who walked, or rather rolled, in the background: Medaine Rob-inette and a sort of rear guard who, twenty or thirty feet behind her, fol-

lowed her every step, trotted when she ran down the steep side of an embankment, then slowed as she came to a walk again. A bow-legged creature he was, with ill-fitting clothing and a broad "two-gallon" hat which evidently had been bequeathed to him by some cow-puncher, long hair, which straggled over his shoulders, and a beaded vest which shone out beneath the scraggly outer coat like a candle on a dark night. Instinctively Barry knew him to be the grunting individual who had waited outside the door the night before—Lost Wing, Medaine's Sioux servant; evidently a self-constituted bodyguard who traveled more as a shadow than as a human being. Certainly the girl in the foreground gave no indication that she was aware of his presence; nor did she seem to care.

Closer she came, and Barry watched her, taking a strange sort of delight in the skipping grace with which she negotiated the stepping stones of the swollen little stream which intervened between her and the cabin of Ba'tiste Renaud, then clambered over the straggling pile of massed logs and dead timber which strewn the small stretch of flat before the rise began, leading to where he rested. More like some graceful, agile boy was she than a girl. Her clothing was of that type which has all too soon taken the place of the buckskin in the west—a riding habit, with stout little shoes and leather puttees; her hair was drawn tight upon her head and encased in the shielding confines of a cap, worn low over her forehead, the visor pulled aside by a jutting twig and now slanting out at a rakish angle; her arms full of something pink and soft and pretty. Barry wondered what it could be—then brightened with sudden hope. "Wonder if she's bringing them to me?"

The answer came a moment later as she faced him, panting slightly from the exertion of the climb, the natural flush of exercise heightened by her evident embarrassment.

"Oh, you're up!" came in an almost disappointed manner. Then with a glance toward the great cluster of wild roses in her arms, "I don't know what to do with these things now."

"Why?" Barry's embarrassment was as great as hers. "If—if it'll do any good, I'll climb back into bed again."

"No—don't. Only I thought you were really terribly ill and—"

"I am—I was—I will be. That is—gosh, it's a shame for you to go out and pick all those and then have me sitting up here as strong as an ox. I—"

"Oh, don't worry about that." She smiled at him with that sweetness which only a woman can know when she has the advantage. "I didn't pick them. Lost Wing"—she pointed to the skulking, outlandishly dressed Indian in the background—attended to that. I was going to send them over by him. But I didn't have anything to do, so I just thought I'd bring them myself."

"Thanks for that, anyway. Can't I keep them just the same—to put on the table or something?"

(Continued next week.)

### AL ACRES—Al's Cat Isn't Afraid of Rats

By Frank R. Leet





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## Woman's Interests

### Home-made Candy for Xmas



THE genial smile of old St. Nick apparently has a psychological connection with our sweet tooth. No sooner do we see his genial smile, or hear his jolly laugh, than we think of candy canes, lollipops, sugared animals, and many other sweets that are found in the Christmas stocking.

During the holiday season nothing is more pleasing to the children, and I will include the grown-ups, too, than to have a handful of candy to munch while enjoying their Christmas stories. These recipes for home-made candy you will find to be accepted in high favor.

#### Fondant.

1½ lbs. sugar  
¾ cup water

1-8 tsp. cream tartar  
Flavoring

Cook sugar and water slowly and stir until the sugar is dissolved. When boiling, add cream of tartar and cease stirring. When syrup forms soft ball in cold water, pour onto a moistened platter. When cool, stir with a knife until creamy. Form into a large ball and place in earthen jar and cover with damp cloth. This will keep a long time. When ready to use, work in the desired flavoring, coloring and

nut meats or candied fruit, and mold into small pieces.

#### Cocoa Caramels.

2 cups sugar  
1 cup molasses  
2 tb. butter

¼ cups cocoa  
1 tsp. vanilla

Cook all together except flavoring, until the hard ball stage is reached. Do not stir after sugar is dissolved. Add flavoring and pour into buttered pans. When cold, cut in cubes and wrap in waxed paper.

#### Lollipops.

1 cup sugar  
¾ cup light corn syrup  
¼ cup water

8 drops oil of cinnamon  
Coloring

Cook sugar, syrup and water, stirring until sugar is dissolved. Then continue cooking until very brittle when dropped in cold water. Add flavoring and coloring, stirring as little as possible. Pour into greased molds and when the lollipops begin to harden, insert the sticks.

#### Chocolate Divinity.

2-3 cups sugar  
2-3 cup light corn syrup  
¼ cup water  
1 tsp. salt

2 egg whites  
1-3 cup cocoa  
1 cup nut meats  
½ tsp. vanilla

Cook the sugar, syrup, salt and water, stirring until the sugar is dissolved. Then cook to the soft ball stage. Gradually pour the syrup over the egg whites, which have been beaten stiff, stirring constantly. Add cocoa and beat until candy will hold its shape. Add vanilla and nuts and drop by teaspoonfuls on waxed paper.—M. C.

### Recipes for Preserving Pork

TO market, to market, to buy a fat pig." So runs a Mother Goose rhyme. Perhaps that is why Mother Goose never was rich, for in raising the family meat supply on the farm and preserving it there for home consumption, there is a saving that rural folks should not overlook.

These recipes show how pork products may be prepared and canned at home.

#### Pork Tenderloin and Chops.

The chops and tenderloin may be canned separately. Wipe each slice with a damp cloth and sear in hot fat. Season according to taste, and roast until nicely browned. It is best to remove the bone from the chops. Pack in sterilized jars to within one inch of the top, and add gravy made from the stock and hot water. Partially seal and process in hot water bath for ninety minutes. Finish sealing and store in a dry, cool place.

Roast pork may be canned in the same way. If canned raw, the process is the same, except that it will need to be in the hot water bath for three hours.

#### Spareribs.

Roast the ribs in the usual way until nicely browned. Remove the rib bones and pack in sterilized jars. Add hot gravy made from the contents of the

roasting pan. Partially seal and process in hot water bath for two hours. Finish sealing and store in a dry, cool place.

As a novelty, place a row of spare ribs around the can and stuff with sauerkraut, seal and process as for the other method.

#### Pork Sausage.

For every three pounds of fresh lean pork, allow one pound of fat. Grind the meat and add one and one-half ounces of salt, one-half ounce of black pepper, one-half ounce of ground sage. Mix the seasoning and meat together and pass through the grinder the second time. Pack into muslin casings and dip into melted lard to seal the surface.

A bulletin containing full information on how to cure and can meat of all kinds, together with numerous recipes, may be had by sending five cents to cover postage and cost of mailing. Address your request to Martha Cole, Michigan Farmer, Desk M., Detroit.

My hands have never been chapped or cracked in the winter time since I used a mop wringer. It seems as if I couldn't keep house without it now.—Mrs. E. V. V.

If you will dry bread slightly in the oven, you will find that it toasts more evenly, and is more digestible.



(Credit for cut is given U. S. Dept. of Agriculture).  
Showing the Three Primary Cuts of Pork. The Spareribs May be Removed Before These Divisions Are Made.



## Reader's Gift Suggestions

**T**HE heap of Christmas gift suggestions that the postman brought this week would fill old Santa's bag to overflowing. In case these gifts materialize, they will not be cast aside shortly after the holidays are passed, for they are all practical.

I want to thank each contributor for their friendly letter at this busy season of the year.—Martha Cole.

### Attractive Spice Set.

I gave a number of tin cans which had contained food, a coat of blue enamel, then I put a line of white enamel around the top, bottom, and the lids of the cans, also a little spray of flowers. Between the white enamel lines I painted rice, coffee, cocoa, cloves, ginger, cinnamon, etc., making a neat spice set. I treated an odd-shaped bottle in the same manner and painted vinegar on it.—Mrs. J. E. V., Middleville, Michigan.

### Handy Holders.

For the set of handy holders I made a band to go around the waist, and fastened it with a button and buttonhole. To two bands that hang from this waist line, I attached two hot-pad holders. One may work out their own designs for these holders. The illustration here shows some designs for holders that are different.—Mrs. L. A., Watersmeet, Michigan.



### Gifts From Unbleached Muslin.

One may use the sugar sacks after they are neatly ironed and pressed, or unbleached muslin. For a married sister who uses her kitchen as a dining-room, I made sash curtains, table-spread and napkins to match. This set may be bound in a contrasting color and a small design etched or appliqued on it. For a friend's baby I made a dainty coverlet of this material, etching a design representing one of the Mother Goose rhymes.—Mrs. M. D., Hillsdale, Michigan.

### Gifts For Kiddies.

For the children so many things can be made from scraps of left-over cloth. Little girls never tire of new doll clothes and would enjoy a little work-bag to carry her first sewing in, like the one illustrated here. This year I have made a lunch cloth with tiny napkins for the dolly's tea table. For boys, a marble bag with a cat's or bunny's head applied upon it, with the ears coming above the draw-string, is appreciated. I often give jars of apple butter, jelly or canned fruit which has been put up in cans or bottles that have been enameled in colors and attractive designs during the summer. My special hobby is making cottage cheese. At Christmas time my customers and many friends receive packages of the cheese wrapped with Christmas trimmings.—Mrs. P. F. Mc., Hillsdale, Michigan.



### A New Table Mat.

I make table mats from used car rubbers, by crocheting around the rubbers as you would around a linen doiley. Instead of putting the hook through, let the thread come around the rubber, making the stitch on the outside of the ring. Fasten the rings together in any desired pattern. This permits an air space under hot dishes

and does not allow the table to become heated.—Mrs. M. M., Decker-ville, Michigan.

## Household Service

### PEAR CONSERVE.

Have you a recipe for pear conserve?—Mrs. J. D.

This recipe comes recommended by one of our subscribers.

#### Pear Conserve.

1 peck pears  
12 tart apples  
Few sticks cinnamon  
Sugar to sweeten

Boil all until well done, and then mash. A potato masher or colander may be used. Boil slowly for about an hour, then put into jars. By adding the apples it is given a nice flavor and the apples give it a better color.

### DISGUIISING MILK.

My little boy doesn't like milk very well. Can you tell me how to get him to drink more?—Mrs. B. F.

You may prepare custards for him, using plenty of milk. The addition of a tablespoon of fruit juice often changes the taste and color of the milk and makes it more tempting to children. The fruit juice must be well mixed with the milk. Either shake it in a fruit jar or beat with an egg beater. Often children will take milk through a straw when they will not drink it from a glass. Have you tried giving him an egg-nog, using cinnamon instead of nutmeg?

## Herold-Bertsch Shoes



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standshardest outdoor service. The farmers' favorite.

Most wear per dollar.

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**H-B Hard Pan** Ask for it by name.

Soles made from best part of hide. Uppers specially retanned to resist water and barnyard acids. Roomy, comfortable. Your store sells it, or can get it for you.

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To learn the best methods of curing meat, write to E. H. Wright Co., 843 Broadway, Kansas City, Mo., and get absolutely free a new \$1 Book. "Meat Production on the Farm", which tells all about meat curing. Free to farmers only. Send name today.

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## Beats Electric or Gas

A new oil lamp that gives an amazingly brilliant, soft, white light, even better than gas or electricity, has been tested by the U. S. Government and 35 leading universities and found to be superior to 10 ordinary oil lamps. It burns without odor, smoke or noise—no pumping up, is simple, clean, safe. Burns 94% air and 6% common kerosene (coal oil).

The inventor is offering to send a lamp on 10 days' FREE trial, or even to give one FREE to the first user in each locality who will help introduce it. Write today for full particulars. Also ask us to explain how you can get the agency and without experience or money make \$250 to \$500 per month. Address J. O. Johnson, 609 W. Lake St., Chicago, Ill.



*"Are you sure there was nothing else in the living room, Ma?"*

After a fire is not the best time to make an inventory. The property is so completely destroyed by the flames as to be unrecognizable and many things are forgotten when your claim is made on the insurance company.

Send for the free copy of the Hartford Farm Inventory Book, "My Property". It will help you to list your buildings and their contents, your live stock, machinery, tools, furniture, clothing and everything else you may own. It will give you a sound basis for an insurance policy and an invaluable record in case of loss.

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Please send me a free copy of your inventory book—"MY PROPERTY".

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**The Crosby Frisian Fur Company.**  
571 Lyell Ave., Rochester, N. Y.

# OUR BOYS AND GIRLS

## M. C. Poets and W. B.

### THE WASTEBASKET.

By Maydah A. Neddermeyer, Fair Haven, Michigan.  
Uncle Frank has a helper.  
Didn't you know it? Why, say!  
I found it out right quickly,  
'Twas not the other day.

'Twas when I first sent answers  
To a contest. I've forgot  
What kind it was. A Read-and-Win?  
Perhaps—but I did not.

I was rather disappointed.  
But then—you see—the help  
Needed special food that day, I guess,  
For he's a hungry elf.

His name—it's just Waste Basket.  
He has lots of work to do.  
Our Uncle feeds him papers—  
Answers, and letters, too.

He devours them with a relish.  
But without a touch of greed.  
Uncle gives him those letters first  
Whose writing he cannot read.

I've tried my very hardest  
To win a prize, you see.  
Perhaps I won't, but then I may  
If this eecapes old W. B.

### POOR OLD W. B.

By Rex Ellis, M. C., Reed City, Mich.  
"I know I'm a Horrid Old Waste Basket," said he,  
They're saying all manners of things  
about me,  
'Tis a terrible thing for what I am  
used,  
If they knew, they'd agree, I am ter-  
ribly abused."

"Now here is a nice big, fat letter,"  
said he,  
"If the contents were printed, you all  
would agree,  
'Twas safer and nicer, to cast it aside,  
And let all it's secrets within me  
abide."

"Just listen to this one, I'll read it,"  
said he.  
'Dear Uncy, I would your niece, like  
to be.  
Who are you, what are you, where are  
you, and why?  
I hope I can see this in print, but—"  
"Oh, my."

So saying he picks up another and  
reads,  
Of tales about sorrow and tales of  
brave deeds,  
Of eyes that are dark and hair that is  
light,  
Of pounds that are "hefty" and feet  
that are "hight."

Some contain nothing but descriptions  
galore,  
Three or four pages, but wish it were  
more,  
Writes as their minds roam, just as  
they "lets it,"  
Then wonders why the old "Waste



Jennett Wainwright's, (Yale, R. 2),  
Cow Seems to Enjoy it Anyhow.

"Basket" gets it.  
So here's to Old W. B. May it always  
be busy.  
Those letters and poems would sure  
make us dizzy,  
For just such a task, they jolly well  
need it,  
That takes to its in'ards, just what we  
all feed it.

### MR. WASTE BASKET.

By Mary Wert, Laingsburg, Michigan.  
I write of the wastebasket  
With wide open mouth  
That catches the letters from  
East, west, north and south.

He's a very close friend  
Of our dear Uncle Frank  
And for keeping our letters  
We have him to thank.

I'm not much of a poet  
But I thought I would try it

To furnish "Mr. Basket"  
With his waste paper diet.

Now paper is bad  
For digestion we know,  
So take heed, Uncle Frank  
What I tell you is so.

"Mr. Basket" will suffer  
From acute indigestion  
From living on paper  
Which is tough, without question.

A "Literary Digest"  
Will cure all his pain  
And in a few days  
He'll be quite well again.

### THE WASTEBASKET.

By Harriet Wordelman, Centreville,  
Michigan.

There is an old thing with the biggest  
mouth—  
He could almost devour a whole  
poet.  
The things he eats aren't affected by  
drouth;  
But he has to be fed—I know it."

He is the editor's special pet—  
A pup would be far better—  
Tho' I've known one of them to get  
Hold of a friendly letter.

This old bogey always hides  
Not far from the editor's chair.  
He doesn't chew, and he never chides,  
No matter how tough his fare.

He gobbles a missive of dainty blue,



## OUR LETTER BOX

Dear Uncle Frank:

I guess this is about the twentieth letter I've written to you, and the wastepaper basket has gladly received them all. I guess I will certainly have to "work to win." I have felt pretty discouraged at times. But I would think of the class motto and try again. And I won't let the wastepaper basket get the best of me either.

I think my twin sister, Margie, will try the "Work-to-Win" contest, too.—Yours truly, Mary LeDell Shoemaker, R. 2, Grass Lake, Mich.

You have a fair amount of that essential to success, called persistency. It has helped you win out this time.

Dear Uncle Frank:

Ho! ho! ho! Here I am again, all safe and sound. Oh, don't get skeered, girls, I'm not on the war path this time.

I read the letter from Thomas N. Hurd, and thought I would write a little.

I know how it is to have algebra in the neck, because I had it there the first week or two. I have kept after it until now I like it better than any of my other studies.

Latin is the worst one for me. That gives me the "stomach ache," almost. I would like to hear from anyone that loves Latin.—Yours very truly, Harold Coles, Montgomery, Mich.

I judge Harold likes Latin about as well as he does bobbed hair and knickers which, if I remember right, also gave him the "stomach ache."

Dear Uncle Frank and Cousins:

I think I should take a part in the doings, 'cause I'm an M. C. Member. I have never tried to take a chance with Mr. W. B. before.

I live on a farm, always did and I suppose always will. I have enjoyed all the pleasures of farm life, such as picking stones, digging potatoes, weeding sugar beets, stacking grain and riding horseback, swimming and climbing trees, etc. Perhaps you don't know what digging potatoes or weeding sugar beets all day on your hands and knees in the burning sun is, if you have always lived in the city.

Well, as I'm a newcomer I will tell you what I look like, if you'll accept bobbed hair. I wouldn't have had my long hair cut if I knew so many boys were against it. Ha! Ha! Am in the tenth grade. Had pretty fair marks, but nothing to boast of.

Harold Coles, you needn't back out just because the curled, bobbed hair,

Then swallows a dunning letter—  
Next—of poems—a dozen or two.  
He's a regular old "go getter."

Picture post cards and photographs—  
Articles and stories galore—  
A love-letter which caused some  
chuckled laughs.  
For dessert—just a few rhymes  
more.

He eats.—That's his business—  
And it's all he does do:



Mae Rosene's, (Brighton, Mich.), Pic-  
ture of Farm Conveniences.

It doesn't cause him dizziness  
As it would make me—or you.

On Thanksgiving Day  
He should be real thankful;  
For at work or at play  
He gets his old tank full.

He may be useful to editors and  
such—  
His name? Well, why don't you  
ask it?  
Personally—I do not care for him  
much—  
Pesky old—greedy old, "Waste Bas-  
ket."

and paint tinted maidens had a word  
to say for their own defense.

For suggestions, I wish we had something about animals, as their wise and clever actions, and those that can be taught to do tricks. It is very interesting to watch the geese take a bath. Jokes and incidents happening at school, everyone can write.

Can more than one in the family try the contests, and can the contests be written in pencil if wanted?

Well, I guess I'll have a game of hide-and-go-seek with Mr. W. B., and if I get a good hiding place he might not find me.—Just a country niece, Emma Behrsin, Stephenson, Mich.

You have certainly enjoyed many of the country pleasures. I have experienced quite a few of them myself. Bobbed hair does not disqualify one as a Merry Circler. Thanks for your animal suggestion.

Howdy Everybody: (Wastebasket In-  
cluded):

Probably W. B. will receive more benefit from this than anyone else. Poor old W. B., how I do pity him!! Always receiving the cast-off. I do hope that he is an optimist for it must surely take one not to get pretty disgusted at some of the letters he must receive. I know, for I have sent him five myself. Oh, I say! "Good Luck, W. B." I hope that you don't get this one for I don't believe in wishing anybody bad luck.

I received my membership card and pin a week or so ago. And I wish to thank you for them—also for the map.

Oh, yes, speaking about electing officers. I hardly know what to think. But I think that it would be foolish to even suppose that it would cause jealousy. As soon as one enters high school the class is organized and officers are elected. Does this cause jealousy? Supposing that it does, the class must be organized regardless. I should think that one would hate to admit it, wouldn't you? I do hope that we have no such members among our members.

I must close.—Bernice Wright, Saranac, Mich.

It seems to me that old W. B. has every reason to be cheerful, he gets more letters than anybody else, and many are good ones, too. However, I read them all because I do not want W. B. to have all the enjoyment. You have some good ideas on electing officers.



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

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Please send one of your 2 gal. Automatic Self-Heating Poultry Fountains. I will pay postman \$1.75 and postage, with understanding I can try fountain for one week and if it is not as represented can send it back and you will promptly refund money.

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why there is a hollow space  
at one end of an egg? Nature  
has provided that air space so  
that the baby chick may have  
air to breathe from the time  
it comes to life within the  
egg until it is strong enough  
to break through the shell.

Eggs hatched in an incubator absorb  
the air from the incubator. If fumes  
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porous, and the little chick dies in  
the process of incubation.

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right. Write today for full particulars.

**DeLuxe Silver Fox Ranch, Manistee, Mich**

## Poultry Producers' Pow-wow

(Continued from page 613).

Some time ago, this young and  
creeping organization asked Mr. Hale  
Tennant, of the M. A. C. Markets' De-  
partment, to give a concrete plan of  
organization for marketing purposes.  
Individually he did not give a plan,  
but he had others with him who did.  
He generalized by talking on the  
needs of, and the necessity for cooper-  
ation.

Mr. Tennant said that investigations  
showed the inefficiency of farming as  
compared with other industries. On  
a good capitalization the farmer would  
not earn interest on his money, or a  
good average labor income. This is  
probably because of the small units in  
which farming is carried on, although  
big corporate enterprises have also  
failed to make good.

Farming on the one-man basis, the  
farmer cannot hire expert scientists,  
accountants, etc., as the great corpora-  
tions can. Therefore, the college and  
government forces are furnishing this  
expert counsel, but in marketing, the  
individual method can only be sup-  
planted by cooperation.

**Cooperative Marketing a Success.**  
Successes in agricultural marketing  
cooperation are already outstanding.  
The raisin growers, with their markets  
almost ruined, got together and in-  
creased their markets so that the  
acreage had to be increased. Other  
similar organizations have had equal  
success.

The long-time contract is an essen-  
tial in these successes. Without this,  
the cooperative market men can not  
make large sales plans as they are not  
assured the products to fulfill them.  
Efficient men to run the organizations  
are also necessary. The great trouble  
with many farmer cooperative organ-  
izations is that they are not likely to  
discharge inefficient help.

Mr. Tennant thought it would be  
hard to include farm flocks in cooper-  
ative efforts, as large volume and high  
quality were necessary and small  
flocks would entail too much over-  
head.

Although there is a big volume in  
poultry products, his department has  
never worked on the poultry market-  
ing problems because there has not  
been the pressure upon them to do so.  
Other farm product people made ef-  
forts to get the department to help in  
their cooperative efforts, and there-  
fore were served first.

### The Danish System Good.

Mr. E. B. Heaton, of the American  
Farm Bureau, who has made a special  
study of the cooperative poultry and  
egg marketing endeavors throughout  
the world, gave some very good sug-  
gestions. He said Denmark has made  
a wonderful success in cooperatively  
marketing the farm flock eggs. Their  
plan required that the Danish farmer  
stamp each egg with the date and his  
individual number as well as the num-  
ber of his local organization. The lo-  
cal organization gathered the eggs and  
sent them to the central association  
which in turn shipped them to Eng-  
land, their principal market. Should  
there be any complaint regarding the  
eggs, the member's number was re-  
ferred to. This placed the misdeed  
directly upon him, and therefore caus-  
ed the members to be very careful in  
the selection of their eggs.

In Indiana, several county organiza-  
tions are doing well. They have as-  
sembly places in various parts of the  
county. In Finland, the cooperative  
marketing of butter and poultry prod-  
ucts has become so efficient that the  
associations own the refrigerator  
boats in which their products are  
shipped.

### Cooperation Stabilizes Prices.

The central California association  
consists mostly of commercial egg  
producers who organized because of  
the great seasonal fluctuations in  
price. They have been able to stabili-  
ze their market and have gained great

prestige, and premium prices, in the  
New York market because, by study-  
ing that market, they found that it  
wanted a white-shelled, light-yolked  
egg for the Jewish trade.

A cooperative organization should  
be based on certain fundamental prin-  
ciples and the cooperators should not  
expect too much. The Danish bacon  
men contracted on a ten-year basis  
and the proposition was a failure for  
five years, but now the bacon associa-  
tion is the most successful cooperative  
endeavor in that country.

### Non-profit Organizations.

The most successful associations are  
on the commodity basis and are non-  
stock, non-profit organizations. A re-  
volving fund based on the amount  
marketed will take care of the financ-  
ing. This fund is furnished by mem-  
bers in accordance to the amount they  
market and they are issued certificates  
of indebtedness for their share in the  
fund. The voting in these successful  
organizations is on the one man, one  
vote basis.

Even if the Michigan men can only  
get twenty-five to thirty-five per cent  
of the production on the contract  
basis, the organization will be success-  
ful if handled right, and will make its  
influence felt in the markets. The  
county is probably the best unit for  
local organization, Mr. Heaton thought.

### The Produce Exchange.

Mr. Clark L. Brody, manager of the  
Michigan Farm Bureau, told of their  
experience with marketing at the De-  
troit Produce Exchange. They found  
that poultry shipped in carlots and  
fed, increased in weight while in trans-  
it, while that sent in crates lost  
weight. In order to make a coopera-  
tive movement a success, there must  
be a strong sentiment showing the  
need for it. When the time and con-  
ditions were ripe the State Farm Bu-  
reau was more than willing to help in  
organizing the poultry men of the  
state. It offered the use of the pro-  
duce exchange at Detroit for this pur-  
pose.

Mr. Gifford Patch, Jr., of the M. A.  
C. Markets Department, presented a  
tentative constitution and by-laws  
which were based on the best in the  
California and Danish plans. He said  
that a large organization, with prob-  
ably the state as a central unit, was  
necessary as large volume and suffi-  
cient finances were necessary for suc-  
cess.

At present, he said, there are about  
720 local co-ops in the state. These  
could be used as local assembly sta-  
tions for poultry and eggs. The plan  
he presented also called for the local  
associations to make contracts with  
the producers for a term of years.  
These contracts would require that all  
the poultry products of the member  
except that for local market and breed-  
ing purposes, be sold through the as-  
sociation.

### Central Stock Organization.

The central association should be a  
non-profit stock organization which  
would require that each local take out  
one share of stock at one dollar for  
each of its members. If only twenty  
thousand members were obtained, the  
central unit would have a fund of  
\$20,000 to work on.

The central organization would also  
have a contract with the local for all  
the products it receives. It would  
charge the costs of selling, plus three  
per cent to create a reserve fund.

The whole organization would be on  
the one man, one vote basis. Mem-  
bers would have single votes in their  
locals and locals would have single  
votes in the central. The supreme test  
in forming such an organization would  
be the willingness of the members to  
contract their products, said Mr.  
Patch.

The constitution and by-laws Mr.  
Patch offered were taken under ad-  
visement by the officers of the associ-  
ation.





### THE TUBERCULIN TEST COMPLETED.

ON November 21, the work of tuberculin testing all the cattle in Ontonagon county was completed. Approximately 9,700 head were tested, and 120 animals reacted to the test. This would give an average of 1.25 per cent reactors. This is a very low ratio of reactors. Other portions of the state have sometimes shown as high as ten per cent reactors, and the average for all cattle tested in the state is 2.2 per cent. Ontonagon county cows are healthy.

A year ago Ontonagon county appropriated \$3,000 to cover the county's share of the cost of making the test. The census figures of 1920 showed 5,800 head of cattle in the county. The estimate of expense was based on this number of cattle. Instead of this number the veterinarians found 9,700 head of cattle; and the total expense to the county, for the county's share of making the test, is less than \$2,000. It is probable that some sort of re-test will be made next year. At least all the herds where reactors were found will be tested again.

### DAIRYING DEVELOPS RAPIDLY.

THE increase in the number of cattle from 5,800 in 1920, to 9,700 in 1923, shows that the farmers of Ontonagon county are rapidly developing the dairy business. This is a wise step for the farmers to take, for dairy farming is the safest, surest, and most profitable type of farming for Ontonagon county. Having all the cattle of the county free of tuberculosis will go a long way towards increasing the value of, and profits from the cattle.

C. H. Hoffman, of the dairy department of the M. A. C., declares that soy-bean meal is superior, pound for pound, to cottonseed meal for milk production. When this meal is fed with alfalfa hay, silage, ground corn and oats, it is worth one-third more than oil meal.

The triple-wedged cow standing in the honor stall had proven a great booster for her owner. Her ability to make much milk from comparatively little food, had gotten the owner so interested that, through compounding feeds and testing the animals, he had built up a wonderful herd.

The cooperative creamery at Cedar Springs, which is owned by about 700 farmers, is shipping a carload of butter each week. During the past year butter prices received by this concern have ranged from thirty-seven to fifty-two cents per pound.

### GETTING COWS WITHOUT CASH.

(Continued from page 611). from carlots of cows on specified terms. These require that the cows be selected by a farmer representative, a business man and the county agricultural agent, with the kinds to be bought designated in the contract. To each cow is attached a card indicating the purchase price and the cost of the transaction, transportation, etc., prorated per cow. The cows are then chosen by lot.

The contract being carried out in Delta county calls for the subscription to stock in a company participated in by business men and farmers.

The agreement states that, "Whereas, it is proposed to organize under the laws of the state of Michigan a corporation to be known as the Delta County Holstein-Friesian Company, or by such other name as the parties in

interest may determine, and, whereas, it is proposed that said corporation shall be organized for the purpose of carrying out the provisions of the contract attached hereto, now, therefore, the subscribers hereto, in consideration of their mutual promises, do hereby severally agree each with the other to pay for and receive the number of shares of capital stock of said company set against their respective names, and, hereby waiving all necessary assessments, agree to make payment or payments for the same to the treasurer of said company on demand at . . . . ., the value of said capital stock being one hundred dollars per share."

If the subscriber be a farmer residing on a farm, he is to receive one cow for each share of stock subscribed, if so designated on the subscription contract, the cow to be maintained under the provisions of a contract. This contract entered into between the company and the farmers calls for furnishing to the farmer one pure-bred registered Holstein cow of about \$300 in value for each share of stock subscribed, to be left in the possession of the farmer for a period of about five years.

The company agrees to pay registration fees, half of veterinary fees, and to provide the service of a pure-bred bull, and keepers therefore, at the most convenient place available; to attend to sale of bull calves; to pay advertising fees.

The farmer, in consideration of all the milk and butter, and one-half interest in the offspring at the end of the contract period, agrees to keep the cows and their female offspring for the contract period, and to care for the animals so as to produce the most profit for both parties concerned, in default of which, the company may take possession of the live stock.

The contract provides for the tuberculosis test for all cattle on the farm before the cattle purchased under the contract are received on the farm. The premises must also be disinfected annually.

Failure to breed cows to pure-bred sires involves a penalty of fifty dollars. There are further detailed provisions stipulating the obligations of both parties to the agreement which there is not space here to present. The ownership of the animals remains in the name of the company during the period of the contract. Undesirable and unprofitable cows may be disposed of by order of the board of directors of the company, and other animals provided in their stead.

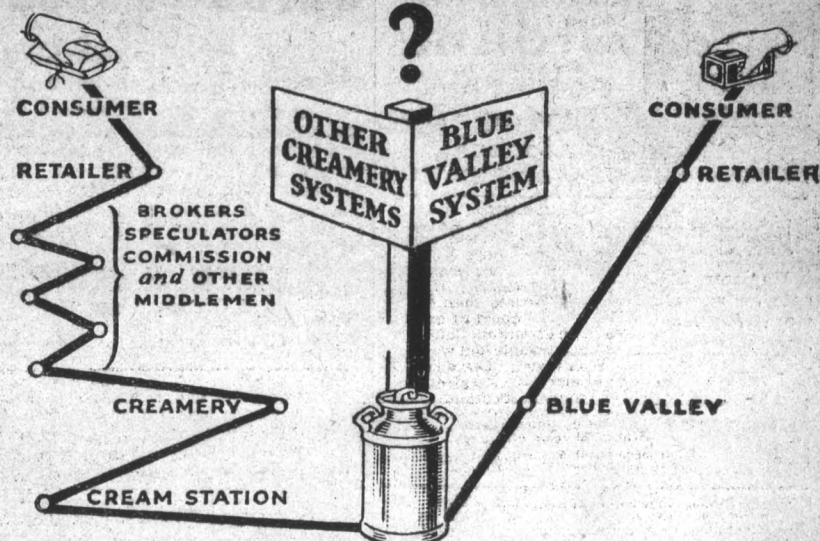
There is also provision for the termination of the contract, when certain conditions make this necessary or desirable, and for the fair valuation of the live stock that must then be disposed of by way of settlement. The board of directors of the company have control of the original purchases of the cattle, their distribution being by lot.

When the period covered by the contract has expired, the cattle are to be sold at public auction at Escanaba. After the costs of advertising and holding this auction have been met, the net proceeds are to be equally divided among the parties to the contract, each farmer, as second party, being paid the net proceeds from his individual half-interest in the offspring of the cows which he held under the contract. An expectancy table indicating the probable returns from this plan accompanies the agreement.

Under these and other arrangements the dairy interests of Cloverland are being augmented materially.

A full cow maketh a full pail.

## Which Road for You?



### Blue Valley Leads in Direct Buying of Cream

We originated the straight road to the highest cream market 23 years ago, and today thousands upon thousands of farmers find our cream market the most profitable and our service the promptest and most satisfactory. We specialize in just one thing—the highest direct cream market and the service you can always depend on.

### Blue Valley, the National Cream Market

There is a Blue Valley Creamery within your easy reach. You ship direct to Blue Valley and you get the full price for your cream direct from us. There are no toll-taking cream stations between you and us to take part of the full price you are entitled to. The Blue Valley price is always high because 23 years of experience has taught us how to manufacture uniform high quality butter from your cream and how to sell it. Today millions of consumers ask for the Blue Valley brand of butter and are glad to pay more to get it. And, just like you sell your cream direct to Blue Valley without profit-taking cream stations, so do we sell Blue Valley butter direct to the retailer without useless middlemen in between to get part of the high sales price. You benefit in higher cream prices the year around.

### 30 Days Free Trial Can Offer

Use your own cans if you have them. If not we will be glad to send you one or two extra heavy cans by parcel post on 30 Days Free Trial. Ship cream for 30 days, then pay \$2.50 for 5 gallon can; \$3.75 for 8 gallon can or \$4.95 for 10 gallon can. Send no money, because at any time within the 30 days you are free to return cans at our expense.

**BLUE VALLEY BUTTER** is good butter—that's why millions use it

**We Guarantee** That our check in payment for each and every can of cream you send us will satisfy you. We guarantee the safe return of your empty cans. If for any reason whatever you are not satisfied we expect to hear from you. We guarantee to satisfy you perfectly.

### Get Acquainted With Blue Valley

You'll like Blue Valley methods and Blue Valley cream checks same as thousands of thinking cream shippers. Self-interest—more money for their cream—the square deal always, and prompt service—these are the reasons why the number of Blue Valley cream shippers increase by the thousands every year. Ship us your cream and see for yourself. Our guarantee and 23-year record protect you.

### How to Ship

Just address a tag to the nearest Blue Valley Creamery shown below. Tie it to your can of cream and give it to the railroad agent to ship. That's all. Our cream check is sent you day cream is received and your can returned to you cleaned, sterilized, dried and tagged, ready for your next shipment. Just start now shipping your cream, and the checks and service will show you it pays to ship to Blue Valley.

### BLUE VALLEY CREAMERY CO.

Detroit, Mich. Grand Rapids, Mich. Indianapolis, Ind. Cleveland, O.  
Columbus, O. Kansas City, Mo. Parsons, Kansas St. Joseph, Mo.  
St. Louis, Mo. Springfield, Ill.  
Chicago, Ill. Cedar Rapids, Ia. Louisville, Ky. Clinton, Ill. Sauk Centre, Minn. Bemidji, Minn.

Which one is nearest to you?

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Before you plan a building or silo, get estimates on Kalamazoo Tile Construction. Need no paint, no repairs; will not burn or decay; cool in summer, warm in winter; also storm and vermin proof.

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GLAZED TILE BUILDINGS  
Solve your building problems permanently. Save money. Write today for our free interesting booklet about Tile.  
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### \$24.95 Upward American CREAM SEPARATOR

On trial. Easy running, easily cleaned. Skins warm or cold milk. Different from picture which shows larger capacity machines. Get our plan of easy MONTHLY PAYMENTS and handsome free catalog. Whether dairy is large or small, write today.  
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Box 7061 Bainbridge, N. Y.

## Turn Slacker Cows Into Big Milkers

The only difference between just breaking even at dairying and making a real profit lies in seeing that there are no slackers in the herd. A poor milker can soon eat up the profit of several productive cows.

Almost always the so-called poor milker is unproductive because of some sluggish condition of the genital or digestive organs. If these functions are impaired the milk flow is quickly reduced.

Kow-Kare helps to make good producers of poor milkers through its direct medicinal action on the milk-making organs. The vital organs of production are made to function with new vigor. Not only does the milk pail benefit, but the cow is able to ward off disease.

Such cow ailments as Barrenness, Abortion, Retained Afterbirth, Scours, Bunches, Milk Fever, Lost Appetite, etc., find their origin in weakened genital and digestive organs. Kow-Kare is a reliable aid in treating these disorders. Its use and reputation is nationwide.

By feeding a tablespoonful of Kow-Kare to all of your cows one week out of each



month you will keep down expensive disease-loss and add greatly to the volume of milk. Dairy experts say that you can double the net profit by increasing the yield only 10%. Let us mail you free our 32 page book, "The Home Cow Doctor." Your feed dealer, general store or druggist sells Kow-Kare: \$1.25 and 65c sizes. If your dealer cannot supply you, remit direct to us and we will send postpaid.

**DAIRY ASSOCIATION CO., INC.**  
Lyndonville, Vt.  
Makers of Bag Balm, Grange Garget Remedy, American Horse Tonic and Horse Comfort.



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LITCHFIELD, MICHIGAN  
Michigan's Leading Live  
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## Brookwood Farm

Registered Guernseys of both sexes for  
sale at reasonable prices. Young stock  
from A. R. dams. Herd is Federal  
Accredited.

**JOHN ENDICOTT, Owner**  
BIRMINGHAM, MICH.

**Guernseys** Some splendid bulls ready for  
service from good producing dams,  
sired by grandson of Imp. King of the May. Also,  
some good cows. Write Meadow-Gold Guernsey Farm,  
R. 8, St. Johns, Mich.

**TWO** Registered Guernsey Bull Calves, Ad-  
vanced Registry Records. Herd on the  
Accredited Tuberculin free list. Priced right for  
quick sale. One Born Nov. 23rd, 1922, and one Feb.  
26, 1923. Knapp & Woodworth, R. 2, Watervliet, Mich.

## Wallinwood Guernseys

Young bulls from A. R. cows for sale.  
F. W. WALLIN, Jenison, Mich.

**Guernsey Heifer Calves** for sale. Thorough-  
bred. T. B. tested.  
Walter Phipps, 234 Alfred St., Detroit.

**10 Reg. Guernsey cows**, some A. R. Record May  
Rose breeding, \$2,600 for all; herd bull \$100.  
John Ebels, Holland, Mich., R. 2.

**BULL, PURE BRED HOLSTEIN** ready for service,  
also younger stock,  
reasonable prices. LAURO RESEARCH FARM,  
Box A, North End Station, Detroit.

## FOR SALE

### 6 Purebred Registered Holstein Heifer Calves

From good dams sired by a 30-lb. grandson of Sir  
Pieterje Ormsby Mercedes 37. Herd under federal  
and state supervision is accredited. J. F. O'HARA,  
OWNER, 318 Dime Bank Bldg., Detroit, Mich. W.  
C. Stark, Supt. of Farm, Utica, Mich.

## Brookwater Jerseys

Bull calves for sale. Majesty breeding. Herd tuber-  
culosis free. Come or write. Brookwater Farm, Ann  
Arbor, Mich.

## FINANCIAL KING BULLS

We have for sale a few bulls ready for service, also  
bull calves sired by Financial King Sensation, son of  
Financial Sensation, the \$60,000 sire. These bulls are  
from R. of M. cows. Write to Coldwater Jersey  
Farm, Coldwater, Mich.

**FOR SALE** Jersey bulls ready for ser-  
vice. All cows Register of  
Merit. Accredited herd. Would take a bankable  
note. SMITH AND PARKER, R. 4, Howell, Mich.

**Registered Jersey** cattle, young bulls, for  
sale. Tuberculin tested  
J. L. CARTER, Lake Odessa, Mich.

**15 Cows, 4 bulls** from R. of M. Cows. Chance  
to select from herd of 70. Some fresh, others bred  
for fall freshening. Colon C. Lillie, Coopersville, Mich.

**Thumb Hereford Breeders' Association**  
can supply your needs with outstanding, well-bred  
registered Herefords, either sexes, polled or horned  
at reasonable prices. Inquire of E. E. TWING, Sec-  
Treas., Bad Axe, Huron Co., Mich.

## Registered Purebred Herefords

Produce Baby Beers in the shortest  
possible time and in the most econom-  
ical manner. They realize extreme top  
prices at a year old. Under the  
Sotham System 69 head from  
nine producers in one week at-  
traged, \$95.00 per head, weighing  
from 750 to 850 lbs. It is to your  
interest to investigate this system.  
Repeater, Fairfax, Beau Donald  
Breeding at practical prices for rais-  
ing beef. Terms. Auction Sale 75 head, November  
2d, 1923, at St. Clair, Mich.  
T. F. B. SOTHAM & SONS,  
(Herefords since 1839) St. Clair, Mich.

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Bulls, Heifers and Cows with Calves by side. Most  
popular strains. Allen Bros., 616 S. Westnedge St.,  
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**FOUR** Choice Hereford heifers, one Hereford Bull  
Calr. All in fine shape, marked well, and at  
farmers' prices. Ward W. Dunston, Clarkston, Mich.

**BIDWELL SHORTHORNS**  
Revolution Jr. 573938  
heads accredited herd  
28917. Now offering 2 January roan bull calves of  
exceptional merit, reasonably priced.  
BIDWELL STOCK FARM, Box D, Tecumseh, Mich.

## Branch County Farm

Breeders of High-class Polled Shorthorn Cattle. For  
Sale, 6 fine bulls nearing service age. Also a few  
cows and heifers. Quality and price will suit.  
GEO. E. BURDICK, Mgr., Coldwater, Michigan.

**Polled Shorthorns** Young bulls for sale, sired by a  
grandson of the \$2,200 Sultan's  
Creed. Write for particulars. E. F. King & Sons,  
Tekonsha, Mich.

**Registered** Red Polled Bulls, ready for service.  
Heifer and cows for sale. J. N.  
Sanford, Free Soil, Mich.

## STEERS FOR SALE

70 Herefords, 780 lbs.; 76 Herefords, 790 lbs.; 86  
Herefords, 575 lbs.; 51 Herefords, 560 lbs. All de-  
horned, deep reds, and in good grass flesh. Can  
also show you other bunches. If in the market for  
real quality, one carload or more your choice. Write,  
stating number and weight preferred. Van Baldwin,  
Eldon, Wapello Co., Iowa.

## HOGS

## Duroc - Jerseys

### Look Before You Leap

Why Experiment with Untried Blood Lines?

Topmast Sensation is backed by gen-  
erations of Grand Champion Boars  
and Sows. Naturally he transmits his  
wonderful individuality to his off-  
spring. We are offering some June  
Boars, also some September pigs at  
\$30.00 each, sired by TOPMAST SEN-  
SATION.

**LOEB FARMS,**  
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## DUROC JERSEY GILTS

Especially long in body and well developed in form;  
a valuable, practical type. Send for photos and full  
description and price of this exceptional practical  
stock. STATE FARMS ASSOCIATION, 307 North  
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FOR SALE—Young boars and gilts bred from the  
best herds in Michigan and Ohio, at reasonable prices  
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**DUROC** Spring boars sired by Brookwater  
Satisfaction 8th, Greater Duration and  
Sensation Boy. Prices reasonable. Write us your  
wants. Norris Stock Farm, Casnovia, Mich.

**DUROC JERSEYS** Spring pigs either sex of March  
April and May farrow, sired by three outstanding  
herd boars. If you want size type and quality combined  
come and see or write us. F. J. Drodt, Monroe, Mich. R. 1

**Duroc Jerseys** Bred Sows and Gilts, \$25 to \$40  
each. Fall pigs, \$12. All Reg. and  
guaranteed. Walt's Top Col. breeding. None better.  
Write us. Jesse Bliss & Son, Henderson, Mich.

**DUROC** fall and spring boars of the best breeding  
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**DUROC** Bargains. Boars and Gilts, Breeding the  
Best. Price the Lowest it has Ever Been. E.  
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**DUROC JERSEYS AND DELAINE MERINOS**  
CAREY U. EDMONDS, Hastings, Mich.

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Gilts sired by Mich. State Fair Gr. Champion  
1921, and bred for March and April farrow to  
Mich. State Fair Jr. Champion 1922, the common  
sense type and price.  
**ANDY ADAMS, Litchfield, Mich.**

**Chesters** Spring boars from prize winning stock,  
will ship on approval. Cholera Immunized.  
Fred L. Bodimer, Reese, Mich.

## BUY NOW

This is your chance to buy Chester  
White fall pigs at rock bottom prices.  
A large lot of good pigs to choose from.

## WEBER BROS.,

10 mile Rd. West Royal Oak, Mich.

**Chester White** Service boars at attractive  
prices, also fall pigs. F. W.  
Alexander, Vassar, Mich.

**O. I. C's.** 25 choice young boars for fall  
service. Clover Leaf Stock Farm,  
Monroe, Mich.

**O. I. C's** 75 spring pigs, pairs not akin, from  
3 good sires, also fall pigs, recorded  
free. Otto Schulze & Sons, Nashville, Mich.

**Registered** O. I. C. Service Boars and Bred  
Gilts. Also a few tried Sows, due  
soon, four Beagle hounds.—Joseph R. Van Eiten, Cliff-  
ford, Mich.

**REG. O. I. C. Yearling Boars.** Extra Yearling and  
Spring Sows. Satisfaction or no Pay. Shipped  
on approval. Fred W. Kennedy, R. 2, Plymouth, Mich.

**O. I. C.** Choice young boars for fall service  
& Sons, Grand Ledge, Mich.

**O.I.C's** Sept. pigs, Sired by "Giant Boy," Senior  
Champion at West. Mich. State Fair, 1923.  
Milo H. Peterson, R. 2, Ionia, Mich., "Elmhurst  
Farm."

## WESLEY HILE POLANDS

A few choice boars for sale at \$20 up. Every  
Animal Immunized and Guaranteed a Breeder.  
Service to Emancipator 2nd or our Liberator  
boar \$30. Ship your choice sow or gilt and we will  
hold her till safe. Write us.  
We like the good ones; do you?

**WESLEY HILE, Ionia, Mich.**

**LARGE** Type Poland China Spring Boars, Sired by  
Hove's Liberator 4th, prize age boar at Detroit,  
and out of Gertadale Lady 6th. Fifth prize age sow  
at Detroit and champion sow at Saginaw. Fall pigs  
not akin. Write for prices. Dorus Hove, Akron, Mich.

**P.C.** 50 head choice Boars and Gilts, Sired by a  
son World Champion Big Bob. Peter a Pan  
son 1,075 Peter Pan and Model Clansman. C. E.  
Garnant, Eaton, Rapids, Mich.

## Livingston's Big Polands

Our thanks to all those who helped make our first  
public sale a success. Our hat is still in the ring  
for bigger and better Polands. Come and see. W. E.  
LIVINGSTON, PARMA, MICH.

**BOARS** at half price. Big Type Poland  
China. The kind that pay a profit  
on high-priced feed. Our pig, in the Pig Club, gained  
70 lbs. in 30 days on 98 lbs. of grain. Jno. C.  
Butler, Portland, Mich.



## FATTENING THE LAMB CROP.

MANY flock owners prefer to hold  
their lambs in the fall and fatten  
them during the winter and sell when  
the market is ready to pay a premium  
for finished mutton. Our experience  
at Forest Grove Farm has been that  
there is a good profit in fattening the  
lamb crop and selling when the mar-  
ket has recovered from the glutted  
condition caused from an over-supply  
of half-finished lambs during the fall  
season.

The flock owner who is in position  
to hold his lamb crop and fatten dur-  
ing the early winter months I know  
will realize a good profit on his feed,  
insure himself a better market for his  
farm-grown roughage and grain, and

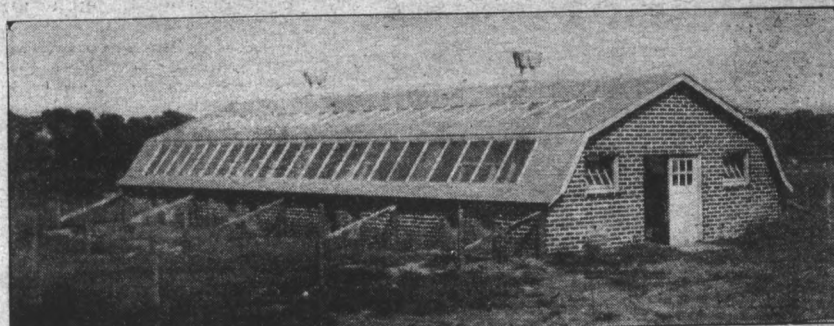
good leguminous forage to graze upon  
in good weather, or dry, bright alfalfa  
or clover hay in winter, good results  
may be expected.

Read the articles by G. C. Terry and  
V. A. Freeman, in the December 1 is-  
sue of the Michigan Farmer.—Pope.

## DEVELOP THE EWE LAMBS.

THE ewe lambs should be separated  
from the older members of the  
flock and given special care. On ac-  
count of being younger and timid the  
ewe lambs, if allowed to run with the  
ewe flock, will not receive the food  
they require and consequently fail to  
mature as rapidly as they should.

I find it a good practice to separate  
the ewe lambs in the fall and winter,



Much Vitalizing Sunshine and Ample Oxygen-laden Air Make the Production  
of Pork in this Substantial Hoghouse Less Hazardous, More Profitable,  
and Withal Pleasanter than in the Old, Dilapidated, Mud-floored Hovel.

leave upon the farm a large amount of  
valuable fertilizer. Manure produced  
from fattening lambs is particularly  
valuable and when properly spread  
upon the land will materially increase  
its productive power.

In fattening my lambs I confine  
them to a small yard adjoining the  
barn, where they can run and obtain  
a little exercise. I think fattening  
lambs have a stronger appetite and  
are less apt to get off feed when al-  
lowed a small yard to exercise in, than  
when confined closely. Over-crowding  
should be avoided. Every lamb should  
have plenty of space at the grain  
trough. If the lambs are not all of  
about the same age and size, the  
weaker should be separated and given  
extra care.

Clover and alfalfa hay are the two  
best roughages for fattening lambs.  
A grain ration of equal parts of dry  
corn, oats and bran should be fed.  
Gradually work the lambs to full feed.  
—Leo C. Reynolds.

## RATION FOR YOUNG BROOD SOWS.

What is the best method for feeding  
young sows that are carrying pigs,  
feeding after pigging, and the rations  
for feeding the young stuff to get the  
greatest results?—W. T.

Corn may be safely relied upon to  
form the base of the ration for young  
sows. Because it is such a good hog  
food, the mistake is often made of re-  
lying upon it exclusively. Although  
one of the most relished grains, corn  
is not a perfect or complete food in  
itself, and except for a brief period  
when the hog is in the fattening pen,  
it should always be fed in combination  
with foods high in protein that help to  
round out the ration. Tankage of a  
high grade is perhaps the most popu-  
lar supplement, and, although the cost  
seems high, it need only be fed in  
small quantities, say half a pound a  
day to an ordinary brood sow. Tank-  
age not only supplies the necessary  
protein to balance the corn ration, but  
is rich in those mineral elements  
which the hog must have in order to  
develop properly.

Some sort of roughage is also very  
necessary for best results with brood  
sows, and if, in addition to corn and  
tankage, the sows have access to a

and feed them liberally on muscle and  
bone-making food. Alfalfa or clover  
hay, bean pods and bright corn fodder  
are excellent roughages. Corn silage  
is a splendid source of succulence and  
can be fed safely if not too rich in  
grain.

Roughages alone should not be de-  
pendent upon for developing the ewe  
lambs. I fed a light grain ration, con-  
sisting of equal parts of oats, corn  
and wheat bran in shallow troughs  
twice daily.—R.

## TO THE MAN WHO FEEDS ANI- MALS.

Hay properly stored for a long pe-  
riod of time does not deteriorate to  
any marked degree in feeding value.

The stomach of the young animal is  
not sufficiently developed to assimila-  
late bulky, fibrous foods. Capacity to  
do this comes slowly, but can be en-  
couraged by starting lightly on grass,  
hay or other materials which are eas-  
ily digested.

There is every reason to believe  
that food thoroughly relished by the  
animal is, by reason of that fact, more  
easily digested. The effect of the  
pleasure of eating upon the secretion  
of the digestive juices appears to have  
much to do with the rapidity and com-  
pleteness with which the food is as-  
similated in the digestive tract.

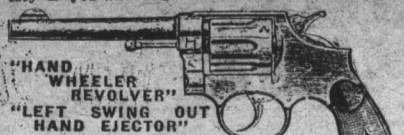
It is most fortunate for the swine  
business that we are rapidly learning  
of the abnormal masses of fat, which  
has been so common in our live stock  
markets, as serving no good healthful  
purpose when consumed by man, and  
is being, in reality, a physical mon-  
strosity. As a consequence, we are  
rapidly pulling away from the old idea  
that in feeding the hogs on anything,  
we may expect the same results as  
when they are given a ration with an  
abundance of bone-making materials  
and a reasonable amount of proteins.

Secretary of Commerce Hoover has  
announced that a survey of the world  
to determine the part electricity is  
playing in agricultural activities is to  
be conducted from his office.



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ZANESVILLE, OHIO.

## STATE FARMERS' CLUB MEETING.

(Continued from page 612).

twenty-five per cent of state employees on state payroll.

3. Reduction of the operating expense of state government by reducing twenty-five per cent of the major salaries.

4. Favoring resumption of legislative responsibility for appropriations and disbursements without dictation and interference of the executive branch.

5. Condemning executive interference with constitutional boards, viz: Regents of the University and State Board of Agriculture.

6. Requesting return of sole responsibility for state accounting to Auditor-general's department.

7. Requesting the abolition of all useless and duplicate agencies.

8. Holding peace officials responsible for enforcement of law, and encouraging agencies standing for statutory and constitutional rights.

9. Favoring repeal of present automobile license law and enactment of a weight tax of sixty cents per cwt. for all automobiles and trucks, and a gas tax of two cents per gallon.

10. Favoring the abolition of public utilities commission and return of home rule regulation of public utilities as far as possible.

11. Requesting the governor and administrative board to confine their actions to the executive branch of government without interference with the powers of the State Board of Agriculture or other like bodies.

12. Opposition to development of public lands for agriculture at public expense.

13. Condemning all efforts to arouse in any way the spirit of antagonism among our leading farm organizations.

14. Endorsing stand taken by the State Board of Agriculture in its endeavor to give the extension department the support it needs in these days of financial depression.

15. Requesting the passage of a law imposing a fine for trespassing upon posted farms for the purpose of hunting and fishing without the consent of the owner.

16. Demanding a substitute for the crushing taxes upon realty and home owners, and the imposition of an income tax to meet all the operation expenses of state government.

17. Expressing the sense of the organization in favor of deferring the reapportionment for state representation until constitution is amended in 1926, and then have it based on actual citizenship.

18. Endorsing efforts of the Farm Bureau to standardize and establish adequate farm organizations in cooperation with clubs and granges, and commending club officers for the part they have taken in helping to lay a permanent foundation for this work.

### National Affairs.

1. Favoring amnesty for political prisoners.

2. Favoring steps toward fixing the price of agricultural commodities to insure farmers a living wage through the operation of commodity exchanges rather than by the government.

3. Favoring the encouragement of cooperative marketing by full cooperation with commodity exchanges.

4. Favoring the development of operation of the Muscle Shoals Nitrate Plant by the acceptance of the Ford offer, or the offer of any other corporation that may agree to better terms than the present proposal.

5. Favoring the proposal of Secretary of Agriculture Wallace for the formation of an export corporation to handle farm products, and urging on congress the adoption of this proposal.

6. Favoring humanization of immigration laws by the determination of fitness for American citizens by American standard before embarkation of immigrants for this country, and urging deportation of aliens who are repeated violators of state or national laws.

7. Favoring the rigid enforcement of national and state prohibition laws and condemning agitation for increased permissible alcohol content.

8. Opposing appropriations by United States for use in the respective states on the basis of dollar for dollar appropriation by state legislatures, and urging congress to cease these legislative bargainings and make grants to the state regardless of state appropriations.

9. Urging the enactment of the truth-in-fabric law compelling the marking of fabrics to show their content of wool, or wool substitutes when used.

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**Polands, Holsteins**—March boars and sows, 1 crack yearling boar. Bull calves 1 to 6 mos. old. Chas. Metz, Ewart, Michigan.

**P.C. Boars and Glits** go at private sale. Price with the times. Write for plan of selling. M. M. Patrick, Grand Ledge, Mich.

**Shamrock Stock Farm Polands**  
Spring Boars and Glits, a few yearling sows. One of the breed's best boars heads herd. Geo. O. Strong, Burlington, Mich.

**Hampshires** Spring Boars and Glits, and fall pigs. Pairs not again; 11th year, 150 to select from. John W. Snyder, St. Johns, Mich., R. 4.

### SHEEP

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good quality. Geo. T. Abbott, Palms, Mich.

**EWE S** For sale in car lots, 2 yrs. old, to solid mouths, mostly black faced. In good condition. A. B. CHAPMAN & SON, So. Rockwood, Mich. Phone Newport.

**Shropshires** Yearling rams with quality, and ewes of various ages. Write your wants. W. B. McQuillan, Howell, Mich.

**Shropshire Rams and Ewes**  
write or call on Dan Booher, R. 4, Ewart, Mich.

### HORSES

## Percheron Horse Sale AT PUBLIC SALE

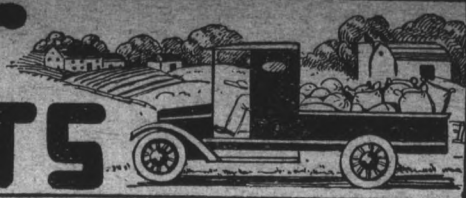
**Tuesday, Dec. 18 1:00 o'clock**  
at farm 8 miles north of Republic Truck plant in Alma, Mich. Brown Registered Percheron mare, 3 years old, weight 1650. Brown Registered Percheron mare 2 years old, weight 1550. Gray Registered Percheron stallion broke single or double 2 years old, weight 1550. Black mare, Reg., 6 years old, weight 1850. Barney Giesken, Administrator sale.

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# THE LATEST MARKET REPORTS



## GRAIN QUOTATIONS. Monday, December 10.

### Wheat.

Detroit.—No. 1 red \$1.11; No. 2 red \$1.10; No. 3 red \$1.07; No. 2 white \$1.11; No. 2 mixed \$1.10.

Chicago.—December at \$1.03½; May \$1.09½@1.09¾; July \$1.07¾.

Toledo.—Cash \$1.10@1.11.

### Corn.

Detroit.—Cash No. 3 yellow at 81c; No. 4 yellow, 76c; No. 5, 71@72c; No. 6, 66@67c.

Chicago.—December 73½c; May at 74½@74¾c; July 75¾c.

### Oats.

Detroit.—Cash No. 2 white at 50½c; No. 3, 48½c.

Chicago.—December at 42½c; May 45¾c; July 43¾c.

### Rye.

Detroit.—Cash No. 2, 73½c.

Chicago.—December 67¾c; May at 74¾c.

Toledo.—73c.

### Barley.

Barley, malting 75c; feeding 71c.

### Buckwheat.

Buckwheat.—New milling \$2.03 cwt.

### Beans.

Detroit.—Immediate and prompt shipments \$4.75@4.85 per cwt.

Chicago.—Choice \$5.70; red kidneys at \$8.20.

New York.—Choice pea at \$5.50@6; red kidneys \$7.50@7.75.

### Seeds.

Detroit.—Prime red clover cash at \$13.05; alsike \$9.45; timothy \$3.75.

### Hay.

New Hay.—No. 1 timothy \$23.50@24; standard and light mixed \$22.50@23; No. 2 timothy \$21.50@22; No. 1 clover mixed \$21@22; No. 1 clover \$20@21; wheat and oat straw \$11.50@12; rye straw \$12.50@13.

### Feeds.

Bran 33; standard middlings \$32; fine do \$34; cracked corn \$37; coarse cornmeal \$35; chop \$33 per ton in 100-lb. sacks.

### Apples.

Chicago.—Barrels, "A" grade Greenings \$5@5.50; Jonathans \$4@5; Grimes \$3.75@4.25; Spies \$4.50@5.50; Kings \$4@4.50; Baldwins \$3.75@4; Spitzenberg \$4; Wagener \$4.

## WHEAT

Wheat prices advanced nearly four cents last week but lost the gain before the close. Factors responsible for the upturn included the light deliveries on December contracts, a decline in the visible supply at terminals and light receipts at primary markets which have declined about 25 per cent in the last month. Part of the reduction in the visible, however, may have been due to large shipments from the western lake ports which will re-appear when they arrive at eastern points. Milling demand for the better grades of wheat maintains moderate volume, and receipts of these grades are light so that they continue to bring a big premium over the lower grades. One unofficial estimate for the country as a whole shows a reduction of 12 per cent in acreage, but a gain of 11.5 per cent in condition, the latter being 4.5 per cent above the ten-year average. Much Canadian wheat remains to be exported but it is not being forced on the market. The amount of wheat shipped from exporting countries which has disappeared in importing countries since July 1 is practically the same as a year ago in spite of the larger yield in Europe.

## RYE

Receipts of rye have been absorbed readily in the last ten days and the visible supply decreased last week for the first time this season. The total is nearly 70 per cent larger than last year, however. An unofficial estimate of the rye acreage shows about 16 per cent less than last year, but the condition is about eight points higher than in the fall of 1922 and slightly above the ten-year average.

## CORN

Receipts of corn at primary markets have practically doubled in the last month, but the rate of distribution has been high so that the accumulation at terminals is insignificant. Net disappearance of corn from commercial channels in the last five weeks has been nearly as large as in the same period last year. Probably some buyers who were unwilling to fill their needs a month or so ago when prices

were much higher, are taking hold on a larger scale. The quality of market receipts is better than expected, but more or less damaged or wet corn is being received right along and some sections are reporting loss from spoilage in cribs. Prices are close to an exporting basis and an increase in clearances has taken place in the last two weeks.

## OATS

Primary receipts of oats have declined each week since the middle of October and withdrawals from the visible supply have been persistent. Larger consumption on farms than expected early in the season is believed to be taking place. Prices show more strength than for other grains.

## SEEDS

From July 1 to November 30, 1923, 841,800 pounds of red clover seed were imported, compared with 227,000 lbs. in the same period a year ago. Alsike clover imports were 6,182,000 pounds, compared with 3,747,000 pounds last year. Imports of alfalfa seed were 5,865,000 pounds, compared with 5,719,000 pounds last year. In all cases, imports during November were particularly heavy. The undertone in foreign seed market has become firmer in the last few weeks as a result of the American demand. How large the demand for clover seed from farmers in this country will be during the winter and spring months is still uncertain.

## FEEDS

Demand for by-product feeds from retailers and consumers remains light. Restricted buying in the last two months has left ample supplies in distributing channels, although a little more firmness is noted on prices for feeds in transit and milling centers are offering wheat feeds less freely than a short time ago. Production of both wheat feeds and oil meal is more likely to diminish than to increase during the next four months, while a large part of the winter demand is still to be satisfied, so that prices are not likely to work much lower. Corn feeds on the other hand, are out of line and may work lower during the winter.

## HAY

Hay markets are holding rather firm on the better grades, which are unusually scarce. Demand is not considered broad. Owing to high freight rates, local conditions as to supply or de-

mand have more than their usual effect on prices. Pasturage has been available until late in the year in the southern states, reducing the demand from that section, although high prices for cotton have made southern buyers more willing to pay good prices for hay. On the Pacific Coast, dry weather is necessitating shipments of hay from adjacent states. High grade alfalfa hay has been extremely scarce on mid-western markets, owing to the damage to the last cutting in the southwest and to the quarantines against shipments from the areas infested with weevil in the west.

## POULTRY AND EGGS

Receipts of fresh eggs were insufficient to meet the broad demand last week, sending prices higher. Mild weather recently has favored production, and fresh eggs have been received from a few sections which usually are not shipping at this time of year. Within a month receipts are likely to increase enough to surfeit the demand at present prices and thus start the decline in prices which usually takes place during the winter. Receipts of heavy fowls are light, with demand for them active, so that prices have been firm at higher levels. The supply of turkeys, ducks and geese is liberal. Prospects are that the number available for the Christmas trade will be large. Prices for turkeys are much lower than were paid for those sold for the Thanksgiving trade.

Chicago.—Eggs, miscellaneous 42@45c; checks 22@25c; fresh firsts 46@48c; ordinary firsts 37@40c. Live poultry, hens at 20½c; springers 18c; roosters 12½c; ducks 17c; geese 17c; turkeys 22c.

Detroit.—Eggs, fresh candled and graded 48@50c; storage 26@29½c. Live poultry, heavy springers 22@23c; light springers 20@21c; heavy hens 22@23c; light hens 20@21c; roosters 13@14c; geese 20@21c; ducks 20@22c; turkeys 25@32c.

## BUTTER

Butter prices lost the advance scored early in the week but a firm undertone was apparent at the close as receipts were well cleaned up. High prices are causing consumers to cut down slightly on their purchases, however, and reports indicate that butter production is increasing so that prices probably will not seek much higher levels. The preliminary report on cold storage holdings on December 1

showed a surplus of 3,812,000 pounds of butter as compared with the same day a year ago. Imports of foreign butter during the past few weeks, while constant have not been of alarming size. Recent advances in the Danish market are expected to check the flow from that country.

Prices for 92-score creamery were: Chicago 53c; New York 55½c. Fresh creamery in Detroit sells for 44@49c in tubs.

Centralized carlots, 92-score, Chicago 49½c; New York 49½@50c; Boston 49@49½c.

## POTATOES

Carlot shipments of potatoes in the last two weeks have declined about 40 per cent and are running about fifteen per cent below the corresponding period last year. Eastern markets were lower last week, with the midwestern centers practically steady. Northern round whites, U. S. No. 1, are quoted at \$1@1.10 per 100 pounds sacked, with bulk potatoes at \$1.30@1.40 on the Chicago market. Prices are likely to strengthen during the next two months if shipments from producing sections do not enlarge.

## APPLES

Carlot shipments of apples have declined about 50 per cent in the last two weeks and, in the last few days, have been smaller than at the corresponding time a year ago for the first time since the end of August. Consuming markets remain rather dull, however, with prices practically unchanged. Based on records for previous years, a further decrease of 25 to 40 per cent in carlot shipments of apples may take place in the next month or two, which may cause prices to strengthen.

## BEANS

The bean market strengthened in the last few days, with choice hand-picked whites quoted at \$5.05@5.10 f. o. b. Michigan shipping points. Farmers are not delivering freely at the decline that has taken place in the last month, while demand has broadened slightly. Both wholesale grocers and elevators will try to carry light stocks over the inventory period and are following the advance reluctantly.

## WOOL

The spurt in buying in the last month has cleaned up most of the accumulations of wool at Texas points and the rather large holdings in the west. Prices asked for the remainder in these sections have advanced and buying has slowed down. Seaboard markets report a fair volume of buying by manufacturers who are covering their requirements for the heavy weight season which will probably open shortly after the first of the year. Foreign markets have risen further and have kept ahead of our price level so that manufacturers have little basis for hoping for lower prices.

Boston quotations follow: Ohio and Pennsylvania fleeces, fine combing 54@55c; fine clothing 48c; ½-blood combing 54@55c; ¼-blood clothing at 48c; ¾-blood combing at 53@55c; ¾-blood clothing 48c; ¼-blood combing 48@50c; ¼-blood clothing 42@44c; low ¼-blood combing 43@44c; common and braid 38@44c.

## GRAND RAPIDS

With the supply of celery beginning to run low, this market has stiffened on the nerve food and all offerings of good quality are being readily absorbed at 20@60c a bunch. Spinach also is firm at 75c@1 a bunch, and hothouse leaf lettuce is showing advancing tendencies at 11@13c a pound. Indications are that prices will average higher next week, as the holiday buying is resumed on a larger scale. Cloudy weather is retarding production. The demand for beans is just a shade stronger at \$4.25@4.50 per cwt. to the farmer. Buying of poultry for Christmas will start next week. This market at present is quiet on all fowls. Lambs are scarce and butchers have raised their live bids \$1 per cwt. to \$11. The egg market is unsettled with bids early this week ranging from 43@46c per dozen. Absence of a strong consumptive demand, not an over-supply of fresh eggs, appears to be the pressure driving prices downward.

## COMING LIVE STOCK SALES.

### Durocs.

Feb. 5.—Detroit Creamery Farm, Mt. Clemens, Mich.

### Poland Chinas.

Feb. 20.—Detroit Creamery Farm, Mt. Clemens, Mich.

## Live Stock Market Service

Monday, December 10.

### DETROIT

#### Cattle.

Receipts 2,482. Market is opening steady on good, slow on common and stockers and feeders. Good to choice yearlings \$9.50@10.25. Best heavy steers 8.50@9.25. Handyweight butchers 7.00@7.50. Mixed steers and heifers 5.50@6.25. Handy light butchers 4.50@5.50. Light butchers 3.50@4.50. Best cows 4.75@5.50. Butcher cows 3.25@4.75. Cutters 2.75@3.00. Canners 2.00@2.50. Choice bulls 4.50@5.25. Bologna bulls 3.50@5.00. Stock bulls 2.00@4.50. Feeders 4.50@6.25. Stockers 4.00@6.00. Milkers 45@85.

#### Veal Calves.

Receipts 719. Market steady to 25c lower. Best \$12.50@13.00. Others 3.00@12.00.

#### Sheep and Lambs.

Receipts 3,225. Market strong. Best lambs \$12.50@13.00. Fair lambs 11.00@12.00. Fair to good sheep 5.00@6.00. Culls 1.50@3.00. Light to common 7.00@9.75.

#### Hogs.

Receipts 4,378. Market is 10@15c lower. Pigs \$6.25. Mixed 6.90. Roughs 6.00. Yorkers 6.75. Heavies 6.90.

### CHICAGO

#### Hogs.

Receipts 85,000. Market is 15@25c lower; mostly 15@20c off. Bulk good and choice 210 to 325-lb. butchers at \$6.75@6.90; tops \$6.90; better grades 160 to 190-lb. average mostly at \$6.55@6.70; bulk of packing sows at \$6.40@6.50; slaughter pigs 25c lower; desirable strong weights largely at \$5.75@6.

#### Cattle.

Receipts 34,000. Market is slow and uneven. Choice yearlings and handyweights scarce; steady; others and most grades of the stock, excepting desirable beef heifers 15@25c lower; stots off more; bulk fed steers \$8@10; relatively few eligible to \$11.50 or better. Stockers and feeders about steady; vealers weak to 25c lower.

#### Sheep and Lambs.

Receipts 28,000. Market is active. Fat lambs steady to strong. Yearlings and sheep around 25c higher. Feeding lambs steady. Bulk of fat lambs at \$12.75@13.25 tops to city butchers at \$13.40; choice fed clipped lambs at \$11.50; fat light weight ewes \$7.50.

### BUFFALO

#### Cattle.

Receipts 175. Market is slow and steady.

#### Calves.

Receipts 300. Market is active and 50c lower at \$4@13.

#### Hogs.

Receipts 9,600. Market slow. Pigs 25@50c lower, others 10@15c lower; heavy \$7.35@7.40; mixed yorkers and light do \$6.75@7; pigs \$6.75.

#### Sheep and Lambs.

Receipts 1,600. Market active and steady; no change in prices.



## GERMANY MAY IMPORT WHEAT.

THE information is published to the effect that, if a settlement of the Ruhr controversies can be reached, Germany likely will become an importer of foreign wheat and flour this coming winter. The provinces affected imported over 23,000,000 bushels of wheat in 1913. While the country can, if necessary, pass the winter on her domestic supplies of wheat and rye, the tendency would be, if international questions are partly disposed of, to increase the per capita use of these grains to the advantage of importers.

## KEEPING THE RAILROADS BUSY.

THESE are busy days for the railroads. A variety of farm crops has been added to the regular routine of traffic. In the sugar beet district train loads of beets are moving toward the factories, while a corresponding quantity of sugar is being distributed to points of consumption. One railroad will handle this year 12,000 carloads of beets, of which about 4,000 have already been delivered. Large quantities of chickory have also been grown this year. In the potato sections, the movement compares favorably with other years, although early promises by the railroads that cars would be supplied as needed are not being lived up to by a hundred percent, by any means. However, the situation is greatly improved over former years.

## ADDS BEAN ELEVATOR.

IN order to more economically handle the large amount of beans used in its products, the Fremont Canning Company is building a bean elevator as an addition to the factory proper. The new building will be sixteen by forty-eight feet, and sixty-four feet high. It will have a capacity of 12,000 bushels and will be ready for operation about January 15. Both white navy and red kidney beans are used.

## Veterinary.

CONDUCTED BY DR. W. C. FAIR.

Advice through this column is given free to our subscribers. Letters should state fully the history and symptoms of each case and give name and address of the writer. Initials only are published. When a reply by mail is requested the service becomes private practice and \$1 must be enclosed.

**Teat Stricture—Failure to Breed.**—I have a cow with stricture in lower end of teat which obstructs the milk flow. Also have another cow eleven years old, comes in heat every three weeks but fails to get with calf. She had her last calf eighteen months ago. R. M. S., Lupton, Mich.—Salt the teat canal on four sides, then dilate it. Try the yeast treatment which is prepared by dropping a cake of compressed yeast in one quart of tepid water, let it stand in warm room for two hours, strain, then flush vagina. Treat her daily for one week before she comes in heat.

**Sow Does Not Come in Heat.**—My sow had ten nice pigs last spring, but since then she has failed to come in heat. N. W. S., Webberville, Mich.—Give her vetol three times a day.

**Chorea.**—I have a sow about thirteen months old that lifts her hind legs very much like a horse with the stringhalt. At first only one leg was affected, now both are involved. She is nursing a litter of pigs, seems to be in good health. What ails her? Can she be cured? N. G. P., Gagetown, Mich.—Chorea is a neurotic condition characterized by rapid contractions of muscles or groups of muscles, and various drugs have been recommended to relieve this condition, but the ailment should be considered incurable. Give her fifteen drops of Fowler's solution at a dose in feed or in swill two or three times a day and it might help her.

**Otodectic Mange.**—Two of our cats have had sore ears since last spring. One is about three years old and the other five years. Both are fat and seem well, but their ears droop and have a bad odor. When they shake their head a dark colored fluid escapes from ear. What is the remedy? C. H. Holly, Mich.—Fill the ears with hydrogen peroxide to loosen up accumulations of wax and discharge, fol-

lowed by a cotton or wool swab to dry the inner ear. Pour some of the following mixture into ear and plug with cotton to prevent evaporation: Beta naphthol one dram, ether three drams, olive oil two drams. After treating the ears for a few days, clean out the ear again with hydrogen peroxide, and apply an antiseptic dusting powder, such as formadine, or one part chinolol in three parts boric acid. Either get busy and treat the cats as I have suggested, or destroy them. This is a chronic ailment and unless remedies are applied faithfully the animals will never recover.

**Indigestion.**—I have a six-year-old mare which is falling away in flesh; she has a good appetite, drinks too much water, is weak, does not perspire when worked. A. P., Hale, Mich.—Give her one dram of fluid extract of nux vomica and three drams of Fowler's solution at a dose in ground oats three times a day. Increase her food supply.

**Growth in Eye.**—Would like to know what can be done for my cow's eye. A scum covers the eyeball, and a reddish colored bunch is growing in lower corner. I applied burnt alum, but it failed to help her. Mrs. W. E. S., Brown City, Mich.—You will obtain good results by blowing equal parts of calomel and boric acid into eye daily.

**Garget.**—I have a five-year-old cow that came fresh last May; for the past three weeks she has been giving a stringy milk from one quarter of udder. J. S. B., Alma, Mich.—Give her a teaspoonful of nitrate of potash in feed or in drinking water twice a day; apply camphorated oil to diseased quarter twice daily.

**Difficult Churning.**—Have a young cow giving a good flow of milk, but in cold weather I find it troublesome to churn this cream into butter; however, if I mix some other cream with it then butter comes quick. A. K. S., Conway, Mich.—Keep the cream in a warmer place, add some other cream, stir the cream daily, change her feed.

**Catarh.**—My lambs have a cold in head, causing them to have nasal discharge which is tinged with blood. G. Z., Ann Arbor, Mich.—Smear their nose with pine tar occasionally, also give them some baking soda in feed or in drinking water twice a day.

**Pigs Going Down Behind.**—I have seventeen pigs three months old; they weigh about 100 pounds each, are well fed, but are going down behind. One of them died. H. S. D. H., Rosebush, Mich.—Feed less corn, more oats, oil meal, clover, or alfalfa and roots, also some tankage. Give each pig a teaspoonful of cod liver oil three times a day. Also give them equal parts of crushed limestone rock and salt, allowing them to help themselves. Do they have enough exercise?

## Ford Car Owners

## Save 1-2 of your Gas

Get a vaporizer—cost little—saving big—guaranteed. Put on in three minutes. Agent wanted in your locality, write

## WETZEL VAPORIZER CO.

204-206 W. Congress St., Detroit, Mich



## Be An Auctioneer

Receive from \$10 to \$500 per day. Send for large FREE Illustrated Catalogue of the Reppert School of Auctioneering. Live Stock Judging and Pedigree Study. Winter Term opens December 31st, 1923. Address

## THE REPERT SCHOOL OF AUCTIONEERING

Box 10, Decatur, Ind.

## TOBACCO

TOBACCO—Extra Fancy Smoking, 10 pounds \$2.50; Good Smoking, 5 pounds \$1; 10 pounds \$1.50; 20 pounds \$2.75; Chewing, 5 pounds \$1.50; 10 pounds \$2.75. Quality Guaranteed. O'Connor Smokehouse, Mayfield, Ky.

KENTUCKY Natural Leaf Tobacco. Smoking, mild, 10 lbs., \$2.50; medium, 10 lbs., \$3.00; 15 lbs., \$4.50. Chewing, 5 lbs., \$2.00; 12 lbs., \$4.50. This is best grade Tobacco. We ship no bugs or trash. Valley Farmers' Tobacco Association, Murray, Ky. Box 292.

HONESPUN TOBACCO. Chewing, 5 lbs., \$1.75; Ten, \$3.00. Smoking, 5 lbs., \$1.25; Ten, \$2.00. Pay when received, pipe and recipe free. Farmers' Tobacco Union, Paducah, Ky.

SEND \$1.00 and receive 2 pounds chewing or 3 pounds smoking, postpaid. Kentucky Tobacco Growers, Sedalia, Ky.

SMOKE ON US—Write for free sample of Kentucky's Best, Hawesville Tobacco Co., Hawesville, Ky.

## MISCELLANEOUS

FOR QUICK DISPOSAL—We offer \$100,000 worth of Government Surplus Goods at bargain prices. Such merchandise as Blankets, Shoes, Underwear, Sweaters, Work Clothes, etc., are being sold at real genuine, money-saving prices. Send for free price-list at once which tells all about this Sale. Army and Navy Dept. Store, 17 W. Jefferson, Detroit, Mich.

FOR SALE—Fordson Tractor, 1923 model, new style, used very little, with governor, pulley, clutch hook, No. 7 Oliver two-bottom plow, and double disc harrow. Owner must sell at once, will take \$425 for the whole outfit. Write at once to Box D-15, Michigan Farmer.

WANTED SEEDS—All Kinds—Soybeans, Pea Beans, Send samples and prices. Klingensmith's Seed Store, Indianapolis.

BLUE AMBEROLA cyl. records 20c. Stamp brings catalogue. National Record Exchange, Wichita, Kans.

## The Real Estate Market Place

Special discount given when used in combination with 7 other Capper Publications. Write for special real estate advertising rates on these papers which reach over a million and a half families.

PAY NO ADVANCE FEE; don't give option or tie up real estate for any kind of contract without first knowing those you are dealing with are absolutely honorable, responsible and reliable.

## Where Can You Match This?

Farm 17. 220 acres of rich irrigated land; 60 acres in cotton, 140 in alfalfa and truck crops, 20 acres pasture, 100 fruit trees. Ten-room house. Should produce almost \$15,000 worth of crops this year. Offered at less than \$100 an acre, terms to suit. Ask the Gateway Club for full information about this and scores of other low-priced, wonderfully productive irrigated farms in the rich Rio Grande valley nearby. Join our community and farm where living conditions are ideal and where Farming Pays. Let us send you our new book.

Dept. 70-E

Gateway Club, El Paso, Texas

## Strout's Farm Catalog Latest Edition Just Out!

Illustrated—filled with bargains throughout Michigan, Wisconsin, Illinois, Indiana, Kentucky, Missouri and other mid-western states. See on page 32 how \$400 secures 80-acre Michigan farm; on state road; new buildings, horses, cow, poultry, tools, hay, oats, potatoes, firewood included, all \$1,000. Page 39 describes 80-acre farm overlooking lake, 1,200 fruit trees, machinery, tools, crops; good 8-room house, basement bath, etc.; 70 acres tillage; mile village; only \$4,400, part cash. Then on page 23 comes 101-acre Lincoln Highway farm, 80 acres corn-alfalfa-potato tillage, fruit orchard; \$5,000 income last year; good house, basement bath; silo, poultry house. Low price, \$11,000, with 3 horses, 9 cows, 3 heifers, bull, 12 hogs, poultry, full implements, 150 bu. potatoes, 250 bu. corn, 30 T. alfalfa, etc. included. Part cash. Hundreds of others \$500 to \$25,000, to suit your needs. You can't afford to buy without this big guide. Your free copy ready. Write today. STROUT FARM AGENCY, 427 K.H. Marquette Bldg., Chicago, Ill.

## Equipped 120 Acre Southern Michigan Farm

Two mi. to R. R. town with stores, church, flour mill and other advantages, nearby large city markets, in high-class farming district, mail and telephone, milk collected, fruit home use, 70 acres productive loam tillage, balance woods and stream watered pasture, well built 8-room house painted, cellar cemented, screened porch, beautiful shade, well and cistern, American neighbors, 32x74 hip roof barn, painted, track and fork, stable cemented, tile silo 12x36, granary, hen house, garage, widowed owner includes 6 cattle, 2 horses, 2 sows, 75 hens, 6 ducks, farming machinery, hay, oats, straw, small tools; sacrifice price, \$7,300—\$1,800 cash down, balance \$500 or more yearly at 6 per cent. Write or see George Wickwire, 24 Sun Bldg., Jackson, Mich., or MICHIGAN FARM AGENCY, 628 Ford Bldg., Detroit, Mich.

100 A. Good buildings, walking distance of College, Albion, Mich. Sell cheap or exchange for Los Angeles. Write owner, 513 E. 47th St., Los Angeles, Calif.

I Want Farms in Mich. for cash buyers. Describe and state prices. R. A. McNown, 324 Wilkinson Bldg., Omaha, Neb.

## CLASSIFIED ADVERTISING

This classified advertising department is established for the convenience of Michigan farmers. Small advertisements bring best results under classified headings. Try it for want ads and for advertising miscellaneous articles for sale or exchange. Poultry advertising will be run in this department at classified rates, or in display columns at commercial rates. Rates 8 cents a word, each insertion, on orders for less than four insertions; for four or more consecutive insertions 6 cents a word. Count as a word each abbreviation, initial or number. No display type or illustrations admitted. Remittances must accompany order. Real estate and live stock advertising have separate departments and are not accepted as classified. Minimum charge, 10 words.

## Rates in Effect October 7, 1922

Words	One time	Four times	Words	One time	Four times
10.....	\$0.80	\$2.40	26.....	\$2.08	\$6.24
11.....	.88	2.64	27.....	2.16	6.48
12.....	.96	2.88	28.....	2.24	6.72
13.....	1.04	3.12	29.....	2.32	6.96
14.....	1.12	3.36	30.....	2.40	7.20
15.....	1.20	3.60	31.....	2.48	7.44
16.....	1.28	3.84	32.....	2.56	7.68
17.....	1.36	4.08	33.....	2.64	7.92
18.....	1.44	4.32	34.....	2.72	8.16
19.....	1.52	4.56	35.....	2.80	8.40
20.....	1.60	4.80	36.....	2.88	8.64
21.....	1.68	5.04	37.....	2.96	8.88
22.....	1.76	5.28	38.....	3.04	9.12
23.....	1.84	5.52	39.....	3.12	9.36
24.....	1.92	5.76	40.....	3.20	9.60
25.....	2.00	6.00	41.....	3.28	9.84

## Special Notice

All advertising copy discontinuance order or change of copy ten days in advance of publication date.

## PET STOCK

NEWFOUNDLANDS—St. Bernards, Collies, Shepherds, Airedales, Rat Terriers, Fox Terriers, List Free. Tilmer Thompson, Elmore, Minn.

GERMAN Shepherd, Airedales, Collies, Old English Shepherd dogs; Puppies; 10c illustrated instructive list. W. R. Watson, Box 33, Macon, Mo.

HUNDRED HUNTING HOUNDS Cheap C. O. D. Trial. Kaskennels, MIFA, Herrick, Ills.

## COMMISSION FIRMS

SHIP your live and dressed poultry, veal, rabbits, direct to John R. Tyler & Company, 954 Fulton Market, Chicago, in the very heart of the big jobbing district.

## POULTRY

SINGLE COME REDS—Cockerels and pullets, March and April hatched. Reduced prices for quick sale. They win, lay, weigh and pay. Harry J. Theis, 283 Hunter St., Battle Creek, Mich.

S. C. BROWN and English White Leghorns, 332 egg tramped, Pedigreed, Stock, Eggs. Vera Fulton, Gallipolis, Ohio.

BARRED ROCKS—State Fair Winners, Orpingtons, Fancied Leghorns, Guineas, Circular, Fanner, Bailey, Montgomery, Michigan.

BARRED ROCK COCKERELS—Egg and show qualities combined, \$3.00 each. Satisfaction guaranteed. I. H. Osgood, Cloverdale, Mich.

## RATES

For Real Estate Advertising On This Page

35c a line per issue on 4 time orders  
40c a line per issue on 1 time orders

Special discount given when used in combination with 7 other Capper Publications. Write for special real estate advertising rates on these papers which reach over a million and a half families.

## Santa Ynez Valley

The "Valley Beautiful" in Santa Barbara County, with the delightful climate of the Southern California coast, away from the heat and wind of the desert. No inflation—subdividing large Spanish Grant—rich lands at Farm land prices, 10 acres to 1,000 acres at \$100 to \$150 per acre on terms. You get increase in price to come with new boulevards and improvements. Last cheap good land near Los Angeles. Write for information.

BURROWS &amp; MORAN,

1010 Detwiler Bldg., Los Angeles, Calif.

## FOR SALE OR EXCHANGE

Eight hundred eighty (880) acres of land, partly cut over, in Sanborn township, Alpena County. This land is free and clear and is in one parcel, one-half (1/2) mile from the D. & M. Railroad, and on highway known as M-10. Considerable timber left, and the land itself is above the average for this section. CITY SUBURBAN REALTY COMPANY, 615 Oakland Building, Lansing, Michigan.

## \$600 Secures 40 Acre Farm

Horses, Poultry, Tools, Hay, Corn, Potatoes, Furr, near store, large lake, 35 A. Level Productive Soil, Fenced, Good House, Barn, Poultry House, Spring Well, etc. Low price, \$1,700, \$800 Cash, bal. \$20 Mo. CHAS. OATMAN, Holtton, Mich.

## Sell your property quickly

for cash, no matter where located. Particulars free. Real Estate Salesman Co., 315 Brownell, Lincoln, Neb.

Would you Buy a Home? With our liberal terms. White people only, good land, healthy progressive country. Write for list. Mills Land Co., Booneville, Ark.

FOR SALE—Good 48-acre farm, good buildings, stock and tools, feed enough to winter stock. On the D. U. R. line, owner, H. A. Sorell, Ortonville, Mich., R. 2.

IF YOU WANT TO LIVE in California write Kings County Chamber of Commerce, Hanford, California, for free booklet.

Cash Buyers want farms—various localities. Describe fully and give best price. U. S. Agency, Box 43, North Topeka, Kans.

WANT TO HEAR from party having farm for sale. Give particulars and lowest price. John J. Black, Copper St., Chippewa Falls, Wis.

80 Acres improved, well drained, good buildings, orchard and fences, near Lake Huron. Good roads. Inquire George Flott, Crosswell, Mich.

\$2300 DOWN GETS well improved 160 acres near Moline. Price \$7,800. See Catalog. Many bargains. Fuller Land Co., Wichita, Kans.

FARMS WANTED—We have buyers for Michigan Farms. Give description and lowest cash price. Warren McTear Farm Agency, Logansport, Ind.

Farm Wanted immediately, direct from owner. J. W. Houck, Tiffin, Ohio.

Farm Wanted Near school; at spot cash price. Mean business Fuller, Wichita, Ks

Don't Rent But buy a Farm in Kansas, small payments, crop payment plan. Clement L. Wilson, Tribune, Kans.

101 Acres Well imp. 55 acres bottom, well located. \$3,500. Jenkins & Jones, Ava, Mo.

Farm Wanted Send particulars. Mrs. W. Roberts, Box 75, Roodhouse, Ill.

Farm Bargains Central Ark. Particulars and booklet. Geo. Suzbee, Benton, Ark.

10 Breeds Chickens, Turkeys, Ducks, Geese, Bantams, Guineas, English Bulls, Fox Terrier Pups; 300 Pekin Ducks. Jesse Burnside, Judson, Indiana.

SILVER LACED and White Wyandotte Choice Cockerels. C. W. Browning, Portland, Mich.

S. C. BUFF LEGHORN cockerels. Write for prices and description. Willard Webster, Bath, Mich.

WORLD'S BEST Giant Bronze Turkeys. Gold Medal (Goldbank) strain. Stock from Champions at Coliseum show the past six years. White Embden geese, Prize Winners, Dell Lay, Lakeside Farm, Route 5, Allegan, Mich.

MICHIGAN'S BEST Giant Bronze Turkeys. America's best strains. Vigorous breeders, both utility and fancy. Furnish unrelated stock. N. Evalyn Ramsdell, Ionia, Mich.

QUALITY CHICKS, eggs; fifteen standard bred varieties; best winter laying strains. Free delivery. Reasonable prices. Catalogue free. Missouri Poultry Farms, Columbia, Mo.

PURE-BRED \*Mammoth Bronze Turkeys, large, vigorous birds, reasonably priced. Mrs. Ralph Sherk, Caledonia, Michigan.

PURE-BRED MAMMOTH BRONZE TURKEYS—Champion Strain, Large and Vigorous, Unrelated Stock. Mrs. B. Smatts, R. 1, East Jordan, Mich.

WHITE WYANDOTTES from my prize-winning, heavy-laying strain. Males \$3 and \$5. Females \$3 each, \$5 pair. David Ray, Ypsilanti, Mich.

MAMMOTH BRONZE TURKEYS—Gold Bank Strain. Unrelated Stock. Vigorous, healthy, birds. Write for prices. Mrs. Perry Stebbins, Saranac, Mich.

LARGE, pure-bred, April-hatched, dark Rhode Island Red (both combs), and Barred Rock Cockerels. Price \$2.50. M. E. Bitley, Casnovia, Mich., R. 1.

NARRAGANSETT TURKEYS—The kind that gives satisfaction. Ernest Clement, Ionia, Mich.

BOURBON RED TURKEYS—Hens \$8; Toms \$12. H. O. Ruggles, Milford, Mich.

BOURBON RED TOMS—From best breeding stock. Munson Robinson, Cedar Springs, Mich.

BOURBON RED TURKEYS—Hens \$5. Toms \$7. Pine Hill Farm, Howard City, Mich.

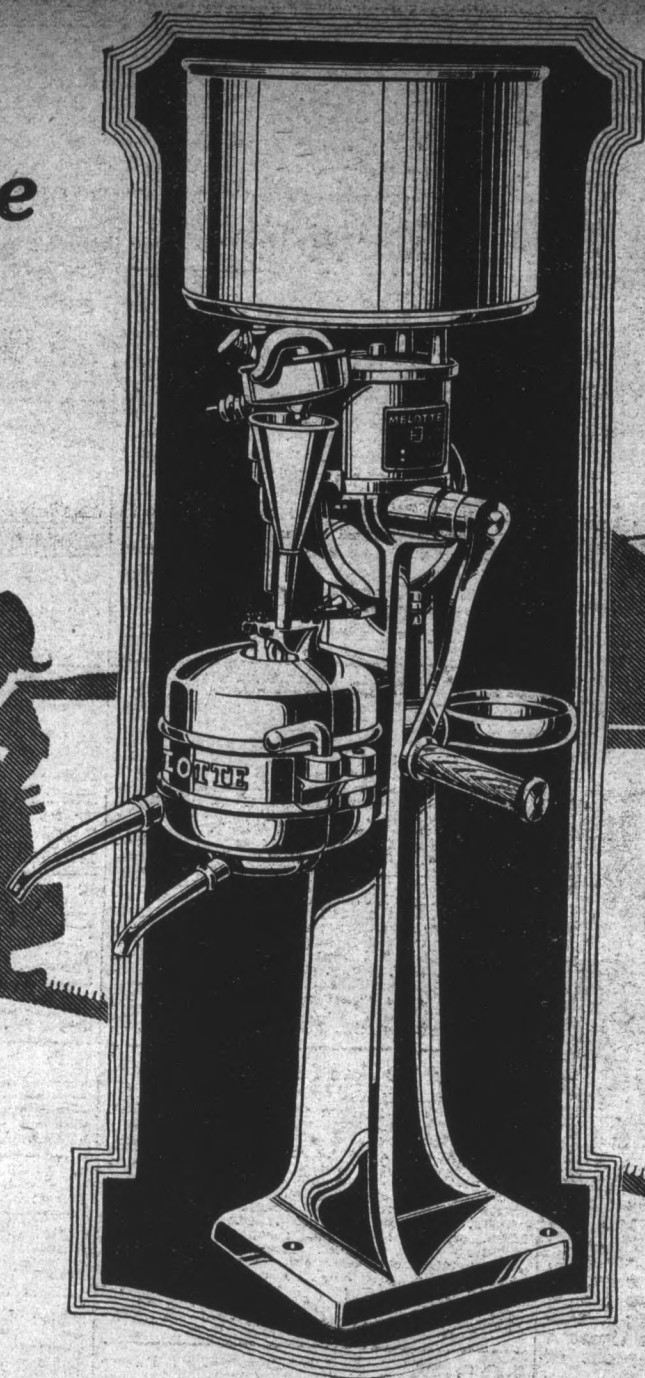
PURE-BRED Giant Bronze turkeys, unrelated. Hens, \$7; Toms, \$8. Mrs. Ida Davey, Ellsworth, Mich.

SILVER GRAY Dorking Cockerels. W. G. Billings, Fennville, Mich.

WHITE ROCK COCKERELS—Choice stock, \$3.00 and \$4.00 each. Wesley Hile, Ionia, Mich.



**Duty  
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**\$7.50**

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The Belgium Melotte contains the famous single-bearing **self-balancing** bowl. This patent Bowl hangs from one frictionless ball bearing and spins like a top. It skims as perfectly after 15 years' use as when new. Positively cannot ever get out of balance—cannot vibrate and thus cause cross currents which waste cream by remixing with milk. Send coupon today. Get the Free Book that tells about this great Melotte.

## Send No Money

We will send an Imported Belgium Melotte Cream Separator direct to your farm on 30 days' absolutely Free Trial. Use it just as if it were your own machine. Put it to every possible test. Compare it with any or all others. The Melotte is easy to keep clean and

sanitary because it has only one-half the tinware of other separators. The bowl chamber is porcelain lined. Turns so easily that bowl spins 25 minutes after you stop cranking, unless brake is applied. No other separator has or needs a brake.

After you have tried it 30 days, and you know it is the separator you want to buy, pay \$7.50 down and balance in small monthly payments.

### Pine Tree Milker

AT LAST! Here is a milker with seven years' successful record back of it. A milker that is as supreme among milkers as the Melotte is among separators. Every owner of 8 or more cows can now afford to buy. Send today for our special Pine Tree small-herd offer!



## Free Trial!

Your choice of any model. **NO MONEY DOWN—FREE TRIAL—SMALL MONTHLY PAYMENTS—DUTY FREE.** This wonderful Belgium Melotte Separator has been picked by a jury of thousands of farmers—picked by dairy experts throughout the world to be the "king" of all separators ever manufactured. It has broken all records for Efficiency of Skimming, Ease of Turning, Convenience of Operation and Durability. Send coupon below for Big Free Book.

## Write!

Mail coupon for catalog giving full description of this wonderful cream separator. Don't buy any separator until you have found out all you can about the Melotte and details of our 15-year guarantee. Don't wait—be sure to mail the coupon **TODAY!**

**THE MELOTTE SEPARATOR** H. B. Babson U. S. Mgr. Dept. 31-09  
2843 W. 19th St., Chicago, Ill. 2445 Prince St., Berkeley, Calif.

Without cost to me or obligation in any way, please send me the Melotte catalog which tells the full story of this wonderful separator and M. Jules Melotte, its inventor and hundreds of letters from American Farmers.

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Post Office \_\_\_\_\_

County \_\_\_\_\_

State \_\_\_\_\_

How many cows do you milk? \_\_\_\_\_

**MELOTTE SEPARATOR,**  
2843 West 19th Street Dept. 31-09  
2445 Prince Street, Berkeley, Calif.

**H. B. BABSON,**  
U. S. Manager  
Chicago, Illinois