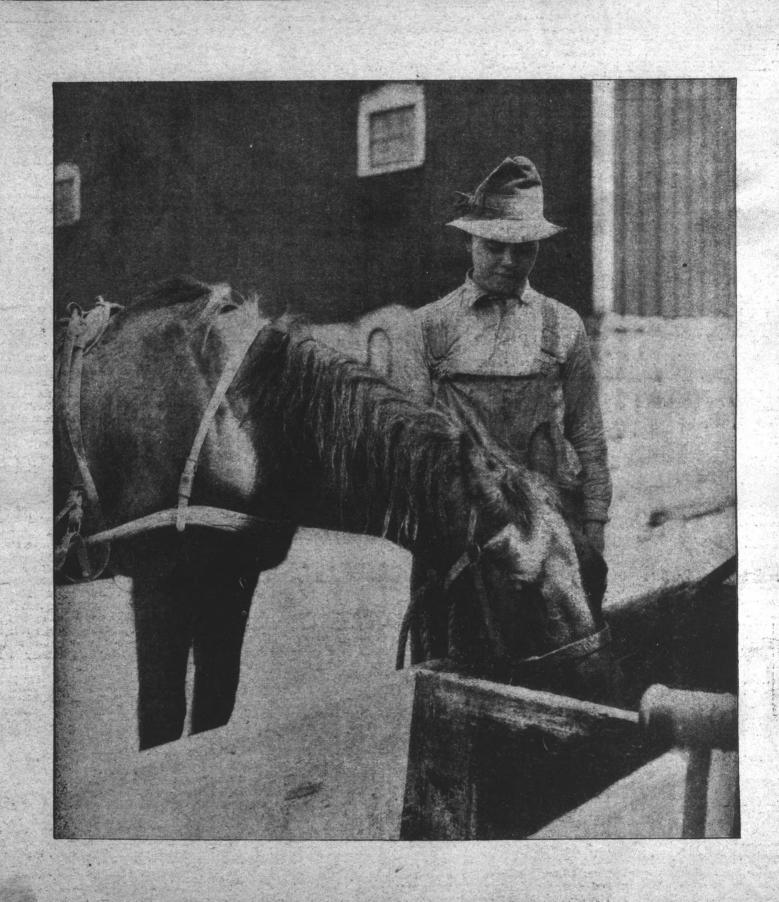


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VOLUME CLXI

NUMBER TWENTY THREE

DETROIT, DECEMBER 8, 1923

CURRENT COMMENT

The wise breeder never sells a poor animal for breeding purposes.

Canada sent ten million dollars worth of furs to the United States last year.

In planning the farmer should always have in mind that high yields make low costs per bushel.

Do we seek to satisfy the hungering minds of the children with the same degree of care that we use in looking after their stomachs?

Eternal vigilance is the most effective safeguard against the re-introduction of tuberculosis into the clean herd.

The unlimited possibilities of helpful service suggest that fairs and expositions have but begun their work of education through demonstration.

New things give life its zest. We are now watching, with interest, the price war between the New York milk dealers, supported by the non-pool crowd, and the Dairymen's League.

Farm Equipment Needs

WHILE proper housing of farm tools and machinery is the greatest farm equipment need at this season of the

year, the provident farmer will find it to his advantage to go over all of his farm equipment during the winter season and place it in the best possible repair for next season's use.

We are prone to postpone this always needed work until the equipment is actually needed, but this is a most uneconomic method. If an inventory of needed repair parts is made and these are ordered at once, costly delays may be avoided next summer.

The work of repairing or replacing worn or broken parts always takes more time than we anticipate, and this time can be taken far more economically during the winter season than when the active farm campaign is on. And we can and will do more of this work ourselves if it is done at this season of the year.

A well equipped shop which can be made comfortable during severe weather is a great convenience and a good investment on any farm. But lacking this a work bench equipped with a good vise located in any outbuilding, and a simple equipment of tools will answer a very good purpose, and will provide the means for profitable employment on many a mild winter day.

bor repair bills run into money rapidly, and any portion of this which can be saved by the productive use of the available farm labor is a most profitable line of employment during the winter season.

Time was when every farmer was something of a mechanic. The pioneer farmer had to be. And the presentday farmer will find it profitable to develop his skill and initiative along this line to a point which will minimize his bills for maintenance of farm equipment and at the same time avoid costly delays when the equipment is needed for immediate use.

Dry Docks or Wet Work

THE attitude of officers in our navy remind us somewhat of the new whale meat industry which was started in Alas-

ka a few years ago, and which has now been extended to the Scandinavian coast. Through modern methods of preserving meat, this industry has met with unusual success and the food is rapidly becoming popular among the Norwegians and other northern populations.

In the past such an industry would have been impossible. These people then held to a belief that at certain seasons of the year the whales drove great schools of herring into the bays along the coast and thereby made profitable a great fishing industry. The part played by the whales has, however, been disproven. So now these people, with a perfectly clear conscience, eat canned whale or whale steak in increasing quantities.

Just as the traditions and beliefs of the Eskimos and Norwegians had kept them for ages from availing themselves of the flesh of these monsters of the deep, so, seemingly, are the aristocratic and social traditions of our navy keeping that institution from doing needed service in coast patrol in times of peace.

Is it not possible that someone will discover that these traditions can be over-ridden and that some service may be secured from the millions of dollars invested in our navy during peace times, instead of requiring that the taxpayers expend additional millions in building another navy for doing patrol work?

The hundreds of boats now rusting away in the dry docks are of the very type required for this coast patrol work. Why not use these navy vessels for watching the bootlegger, who today is more of a menace to our national welfare and institutions than any foreign enemy?

The Business Outlook

THE doctors of business have of recent years been able to trace many of the symptoms of business ailments from the

first infection to the final return of normal business health, just as the doctor of medicine knows the likely turns which will come in the various diseases of the human body.

When industrial production declined during the summer, there was apprehension lest we were at the beginning of another business depression. But when the doctor was called, he pronounced the situation as one at which we should not be alarmed.

He explained that it is impossible to have a business depression there is an easy money market. An over-extended credit situation seems to be one of the essential symptoms of the approach of a real crisis in our business world.

time. Money rates are now lower than last spring and are still easing off. The doctors hold that this will continue till next spring when business activities promise to expand.

on a broad basis. October buildings

At present costs of mechanical la- finance, while the total for September the people in the amendment, apparwas a quarter of a billion dollars, which was about the amount required for October of a year ago.

Railroads are handling record tonnage. With the depression still fresh in mind, businesses are being conducted conservatively. The European influence upon conditions here has largely been written off. Moreover, there is no accumulation of goods; this should keep our factories running, our labor engaged, and give a continuous outlet to raw materials.

This is how the doctor looks at the present business situation. We hope he has made no mistake in his diag-

The Hard Problem of Soft Drinks

T seems that man must sozzle something, and he is apparently willing to pay for it. The hard stuff, that which caus-

es insanity and wrecked families costs enough per quart to keep a family a week, while the soft stuff runs up in total expenditures which outdo the money spent for education and many other worthy causes.

Why is it that he should desire drink to such an extent? May it be that he can't get over his early born habits of making his intake principally a liquid one? If so, why does he not show good judgment by continuing with the wholesome and natural drink he started with?

As it is he has fallen by the way and has substituted palate ticklers for real thirst quenchers and food drinks. Even in the supposedly harmless soft drink, is he being given something worse than nothing?

Most all of the "grape," "orange" and other "fruit" drinks are creations of the chemist's skill and never come even within the aroma of actual fruits. They give the taste but they lack the healthful qualities of the juices of the sun-kissed fruit. They contain nothing but water, synthetic flavoring and coloring, while the real fruit juices are nature's greatest tonics, filled full of vitamines and other good qualities which help keep the body in a healthful condition.

We drink the fake fruit drinks because they can be sold at such low cost that the real product can not compete in price. Their large consumption is an indication that there is a great human craving for a fruit juice drink which is now being spuriously

Not only is the present status of the soft drink matter putting one over on the consuming public, but it is also unjust to the fruit grower. The cheap competition is closing to him a big opportunity to fulfill the great want for the real nectar of the fruit, and is ruinning a market for the wholesome byproducts of his orchard.

Whereas, the present lack of law regarding the use of fruit names on soft drinks makes it easy for the soft drink manufacturer to stand between a great need and its proper fulfillment, we believe the State Horticultural Society showed very good judgment in passing a resolution urging the passing of a federal truth-in-fruit-juice bill. And we hope that all who do not believe in foisting cheap imitations on the public will help to create sentiment in favor of such a bill.

Watching The Straws

the surface, in the November elections. This was particularly

the case insofar as these elections had Our credit market is healthy at this a bearing upon the attitude of the voters toward the Eighteenth Amendment and its enforcement.

The outcome of these elections was not reassuring to the wets. The effort required a third of a billion dollars to ingly designed to shake the faith of we will have the HY SYCKLE.

ently did not secure the desired re-

In Vermont, where the enforcement of the dry amendment was an issue, the people, by a large majority, chose a dry senator, Porter H. Dale, to represent them at Washington. The people of New Jersey, which state has never even ratified the Eighteenth Amendment, chose a dry legislature and throughout the counties electors discriminated between the wet and dry candidates, in favor of the latter. The voters of Kentucky chose a dry governor, while the active campaign of Mayor Dever, of Chicago, in closing thousands of places where intoxicants had been sold, proved of material aid to his party because of the favor with which voters seemed to look upon this clean-up work.

These results would appear to show the direction in which the straws lean; and it would appear that voters are wary of the wet propaganda, even in states where it might be least expected

Back Home

WAS back home-the place where I hitched Deacon Jasper's horse up backwards, and got spanked right in the middle of a crowd by one of the pillars of the church. Back home is where I held my first girl's hand. Lucy Fuller's seemed like the nicest hand ever held, it was so soft and slender.

Now Lucy is got eleven kids and a man to take care of. I'm kinda sorry for Lucy, but she is holdin' up perty well under the task she's got before her. Her family is goin' to be her life's accomplishmunt.

And the Deacon? Well, instead of bein' a pillar he's got one settin' on



top o' him, holdin' him down. It says, "At Rest." I guess he's more comfortable than when he was tryin' to impress righteous ways on me. So am I.

The home folks says, "Well, Hy,

you ain't no different since you became a famous writer." I says, "No. Sophie keeps me from thinkin' I am any more than I was, 'cause she always says, 'You must o' been quite a baby, 'cause you ain't been nothin' since'." Ain't it funny, before you're married you are the greatest man there is, but after, you are what the Perfessors call a necessary evil.

Well, you know, goin' home is like clouds and sunshine. For inst., there's Mable Johnson, once as sweet as any rose what growed, but now she is wilted and faded. It's a shame such nice girls should grow old so quick.

But there's Jimmy Marvin, whose folks always called him James, who was quiet and kinda sick when he was a kid. It kinda looks like the insurance business is just what he needed, he's so big and healthy and prosperous like.

I didn't know Dorothy Daly, who I used to carry in my arms; she's the nicest and cutest little feminine charmer you ever see. I tell you, if I was young again I sure would make some feller jealous.

Minerva Jones is still good-lookin', but in the middle forties. She ain't THERE was much got no husband and don't seem to care interest, which for one, cause she seems to get lots was not apparent on out o' life carin' for her mother and bein' good to the neighbors.

"Skinflint" Webster is still runnin' the bank. He's been so close in his days his skin is got kinda tight over his bones.

And others. They're gone. Memory and stones tell us they was here once.

Father Time brings lots o' changes. Some we can't stop, but there's lots of recent months to obtain public at- o' them what we blame on Father Construction work is going forward tention and favor through the wide- Time that we 'cause ourselves. So spread publication of stories, seem- much o' life depends upon the liver.

Michigan Ton Litter Contest Closes

Cash Prizes and Gold Medals Will be Awarded at Breeders' Meeting in February

CIXTEEN litters weighed above the ton mark at 180 days age in the Michigan 1923 Ton Litter Contest. They were all fed for practical economical production without using any expensive methods to induce rapid growth, so that the lessons brought out by their records are of practical value to every Michigan swine grower.

A summary of the records of the winners is most interesting and shows the following facts to obtain in the history of nearly every litter.

1. The dams received either some protein supplementary feed, such as skim-milk, tankage, middlings, oil meal or legume hay, along with a limited amount of corn during the gestation period, or else the ration was made up of a very small proportion of corn, barley or rye for several weeks before farrowing. This supplementary protein feed was considered especially important the last five or six weeks.

2. The dams were managed so as to require them to take considerable exercise every day during the gestation period.

3. A careful record of the breeding date was kept so that special attention could be given at farrowing time to provide a warm, clean, dry pen and to be on hand to care for the new-born

4. The sows were fed lightly for two as soon as the pigs could use more milk, the feed was gradually increased until the sows were receiving all they could consume after the first month.

V. A. Freeman

five weeks and were well started on feed by the time they were weaned at eight to ten weeks old.

6. Feeds rich in protein, like skimmilk, buttermilk, middlings and tank- first three or four months, but were

feed by themselves at ages of three to the pigs after they had been weaned. 8. Several litters were fed on selffeeders from before weaning time throughout the period, while others were required to use more pasture the

medium type, showing plenty of constitution, feeding capacity and great length and depth of body, and showed an active temperament.

The first five will win, in addition to the gold medal to be awarded each of the sixteen, the cash prizes made possible by the contributions of the packing companies of Detroit, which are \$50, \$40, \$30, \$20 and \$10 respec-

The heaviest litter in the contest also wins their producers, V. J. Brown & Son, of Jonesville, the \$200 offered by the Poland China Breed Promotion Committee. The heaviest Duroc Jersey Litter, produced by H. M. McIlwain, of Bath, wins the \$100 offered by the National Duroc Jersey Record Association. The heaviest Chester White litter, produced by Fritz Mantey, of Fairgrove, wins the \$100 offered by the Chester White Record Association. Ray Harold, of Gladwin, wins the \$50 offered by the American Duroc Jersey Association.

It is interesting to note that while a Poland China litter won high honors both in litter weight and average weight per pig, a Duroc Jersey litter stood second, and a Chester White litter stood near the top. Every litter was sired by a pure-bred, and threefourths of the dams were pure-breds. Seven of the sixteen litters were sired by a Duroc Jersey, five by a Chester White, three by a Poland China, and one by a Berkshire. Of the dams, were Durocs, three Chesters, three Polands, one Berkshire, and four grade Durocs, Polands and Chesters.

Here Is the List of Winning Litters

	ht.	eeding Sire.	Breeding of Dam.	ber ss.	
Order.	Weight	Sir	Da	Number of Pigs.	Owner. Address.
ō		Br of	of	Zo	
1.	28401/2	Pol. C.	Pol. C.	10	V. J. Brown & Son, Jonesville.
2.	2756	Dur. J.	Dur. J.	12	H. M. McIlwain, Bath.
3.	2636	Pol. C.	Gd. D. J.	12	Monroe H. Smith, Leonidas.
4.	2404	C. W.	Gd. P. C.	10	Fritz Mantey, Fairgrove.
5.	2341	Dur. J.	Dur. J.	10	Ray Harold, Gladwin.
6.	2278	C. W.	C. W.	11	Charles McCalla, Ann Arbor.
7.	2272	C. W.	Gd. C. W.	9	Harry Ward, McBain.
8.	22021/2	Dur. J.	Dur. J.	10	Perry A. Hewitt, Highland.
9.	21581/2	C. W.	C. W.	9	W. H. Collar, Dansville.
10.	2124	Dur. J.	Gd. D. J.	11	Royce Brazee, Onsted.
11.	2122	Berk.	Berk.	12	Joseph L. Ruth, Port Austin.
12.	2060	Pol. C.	Pol. C.	9	Jesse T. Fox, Prattville.
13.	2055%	Dur. J.	Pol. C.	10	Ivan Bursley, Charlotte.
14.	2042	Dur. J.	Dur. J.	. 8	Alex. Brown, Homer.
15.	2014	Dur. J.	Dur. J.	9	Helen Strange, Grand Ledge.
16.	2000	C. W.	C. W.	_10	Ralph A. Tew, Hudson.

at weaning time, along with tempting foods, such as corn, hominy, or ground barley, wheat and oats.

7. Alfalfa or clover pasture was 5. The pigs were encouraged to take used for the sow and litter and for larger than the average sow, but of a

days to one week after farrowing, but age were used for the pigs before and full-fed during the last two or three months. The litters making the highest average weight per pig were fullfed throughout the period.

9. The dams of the litters were

Fox Men Get Together at Milwaukee

Economic Value of Industry Prevails in Discussions

By Frank A. Wilken

N the spacious Auditorium, which covers a whole city block in Milwaukee, there was a circus, a poultry show, and a fox show going on at the same time without any interference, or knowledge of each other's activities. The fox show was the center of our attention.

This show was the fourth annual live silver fox exhibit of the National Silver Fox Breeders' Association of America. In it were bright-eyed, glossy-furred, sly reynards who never have and never will know the wild abode of their ancestors. Here were 479 "black dogs," still untamed, but who live within wire enclosures, whose skins sometime would be worth about \$500,000 if they were to grace milady's neck, but who, alive, are worth more than that for breeding purposes.

These foxes were entered under two great divisions, the Standard and the Alaskan, and in these divisions there were about twenty classes, depending upon the color of the fur in each division. The judging of these animals by three competent fur and fox experts resulted in closer scoring than ever occurred at fox exhibitions. This indicates that the leading breeders of over twelve states are getting closer to the standard of perfection in their breeding work, that it is not necessary to go to any certain section to get good foxes.

The big prize went to Tarnedge Humber, a standard black male who scored 971/2. This makes him the highest scoring fox in the world. He is owned by the Tarnedge Fox Farm of New York.

Michigan Breeders Capture Many Prizes.

Michigan fared very well in the winnings, capturing six firsts out of a possible twenty. The Detroit Silver

thirds. The Corwin-DeLuxe silver Fox Company, of Hart, Michigan, won two firsts, two thirds and two fourths. Gaffney & Leonard, of Petoskey, got one each of first, second and third, and F. M. Anderson, of Muskegon, got a first and a second.

At all times during the show crowds were gathered here and there talking on various phases of fox raising. Methods of breeding probably predominated. Some seem to think that to get a good medium silver skin, the kind most in demand, the dark blacks will have to be introduced in the blood lines every little while in order to maintain sufficient of the black guard fur to make a good skin. Others think that the selection and breeding of good medium silvers will give the highest percentage of good pelts. The medium

silver skin is preferred over the dark black because any fox skin can be dyed black in imitation of the real article, whereas, no dyeing can imitate the fur with the mixture of silver and black.

All the breeders feel that soon the fox business will go on the pelt basis, but even with it on the pelt basis it will be very profitable. One old breeder has been working on the pelt basis for five years and shows an average of about \$375 for his pelts during that time. His average cost for raising the foxes on the pelt basis was \$80.

At the business meetings many things of interest were discussed. Most of them were with relation to association affairs. During the Friday morning session there was an interesting discussion on the subject of taxation. This being a comparatively new industry, the methods of taxing foxes vary greatly in different sections. In some places the tax officials put the foxes on the rolls for \$1,200 to \$1,500 each, while in other instances they are not taxed at all.

One Ohio fox man objected to a \$1,200 valuation by the local assessor, so went to the state authorities who said that everything was listed according to its value on April 8, which is listing day in Ohio. Previous value and possible future value later on was not to be taken into consideration. As foxes are neither good for eating or for fur purposes at that date, this breeder put his whole ranch in at \$100 and expects to fight it out with the local tax authorities on that basis. He advised all fox raisers to investigate the tax regulations of their state in order that their foxes may be fairly listed.

The chief event of the whole meeting was the banquet, held in the Wisconsin Hotel Blue Room on Friday evening. Here about 175 enjoyed a bountiful feast, some good orchestra music and singing, and some exotic dancing. After the entertainment features were over the boards were cleared and some worth-while speeches were listened to.

Dr. Ned Dearborn, former assistant biologist for the United States Department of Agriculture, but now president of the Dearborn Fox Farm, was the first speaker. Dr. Dearborn is properly called the father of the fox industry because of his pioneer scientific work with the domestic fox. He was one of the first in this country to realize the need of domesticating the fox to maintain the fur supply of the country.

He said that it was gratifying to see the interest and attendance at this (Continued on page 590).

Michigan Hen Makes Record



Fox Company, of Rochester, Michigan, This Barred Rock Hen Lays 284 Eggs in 365 Days and Thereby Sets a Recgot one first, three seconds, and two ord for Other Mid-west Biddies. (See Story on Page 600).

Name and Address When Sording Inquiries . Service Cannot be Given to Unsigned Letters

TO CLEAR TITLE.

A. sold a farm to B. in 1920, terms \$1,000 down, balance \$200, plus interest, yearly until \$4,000 was paid. B. is a married man with grown family. A. wishing to live up to law, sent his contract to the county seat, paid his tax and the contract was placed on record. B. stayed on the farm less than one year, then abandoned it and gave up his copy of the contract, but refused to sign off, unless A. gave back his \$1,000. The records show his contract. What steps shall A. take to tract. What steps shall A. take to clear the title of his name?—C. B. A.

Bill to foreclose the purchaser's rights and decree thereon would clear the title, and that is the best method to pursue.-Rood.

DOG BITES BOY.

I owned a dog (two years old). The dog was on my porch where the well is located. A neighbor boy who had been working in a field near by came on my place for water. The dog at the control of the property of the control of the contr been working in a field near by came on my place for water. The dog attacked him and bit his arm. I took the boy home in my car, then drove him to the doctor's. The doctor called two or three times after. Doctor sends me the bill, which is for \$9.00. Am I obliged to pay the bill? Have paid dog license and sold the dog. License was not paid at that time.—N. C.

If the person who came for water had reasonable ground to believe that he had permission of the owner of the premises to do so, and if the dog had at any prior time, to the knowledge of the owner, bitten anyone so that he was aware of his dangerous propensity, the owner is liable for the damage suffered, including the doctor bill, otherwise not .- Rood.

HOW TO GET TIMBERLAND EX-EMPT FROM TAXES:

How should one proceed to get tax exemption on timber lands not being used for any other purpose?—K. V. E.

In order to obtain exemption, the forest reservation must be on a tract of land not exceeding 160 acres and at least one-half of which is improved and devoted to agricultural purposes, the reservation containing not less than 1,200 trees to the acre, either original or planted, and from which cattle, horses, sheep, hogs and goats are excluded, until ninety per cent of the trees are two inches in diameter. The reservation cannot be more than one-quarter of the tract. Upon setting apart such a reservation, the owner may notify the supervisor, whereupon it becomes his duty to examine the reservation and note upon his return the condition of the trees, and if the reservation is approved to exemption from taxation, all value over \$1.00 an acre. After the reservation is established, no timber can be cut from the tract other than fire wood, for his domestic use, without permission from the tax assessor of his district and payment to him for the trees cut of five per cent of their appraised value. These provisions are in Act 86 Public Acts 1917.—Rood.

HARDWOOD ASHES FOR MUCK LAND.

The soil on my land is muck and sand, and also sour. Would you advise me to put on hardwood ashes? Is it best to leave in piles until spring?

Hardwood ashes are most excellent for muck land. Most muck land is acid, and ashes contain lime to correct this. Muck land is also deficient in the mineral elements of fertility, potash and phosphoric acid, and unleached hardwood aches contain about five per cent potash and one per cent phosphoric acid.

Sandy land, in many instances, is acid also. You can test yours with litmus paper and, if acid, there is more than one benefit to come from using ashes. Most sand is deficient in the mineral elements of fertility and

will, therefore, be benefited in this respect. But, besides, ashes will improve the physical condition of most sandy soils. The fine ashes will fill in to some extent between the coarse particles of sand, making the soil more dense and a better retainer of moisture

Do not leave the ashes in piles, for they will leach during the winter, leaving your lime, potash and phosphoric acid all in one place; whereas, it should be evenly distributed over the Spread the ashes as applied, even if the ground is covered with

CAN THE COMPANY COLLECT?

After ordering some roofing and paint, and receiving directions for applying same, I decided that it wasn't what I wanted or as I expected it to be. So I paid the freight charges when received and also prepaid the freight and sent it back untouched. Can the company collect one-third of the sale price?—E. G.

If there was a contract the purchaser is liable to pay the entire purchase price, and the seller is not bound to accept a return of the goods. If by reason of mistake there was no contract or there was a voidable contract and the purchaser avoids for that reason, he is not liable for any part of the purchase price. The goods being ordered from a printed catalog, containing no misrepresentations of fact, the prospect of getting the contract avoided for mistake would not be very good. As a matter of good business, merchants usually make adjustments in such cases.-Rood.

BUCKWHEAT FOR DAIRY COWS AND HOGS.

As we have about two hundred bushels of buckwheat, would like to know its feeding value for dairy cows. Would it pay to sell the buckwheat at \$32 a ton and buy bran at \$35, gluten at \$45, or cottonseed meal at \$60 a ton? Is buckwheat a good feed for hogs, or will it give them the itch?—T. R.

Buckwheat ground whole has nearly

hulls are practically indigestible. Buck- into flour, sell the flour, and feed the wheat middlings are twenty-two per cent protein, and will almost take the place of oil meal in a ration. But the bran, or hulls, alone are poor stuff. If the middlings and hulls are run together, making what is known as buckwheat feed, this then contains as much or more protein than wheat bran and is a desirable feed.

The ideal way to dispose of this buckwheat would be to get it ground the same food value as corn, but the

middlings or buckwheat feed. ought to find a good market for the

It is not a good plan to feed ground buckwheat to hogs as the entire ra-Some people claim that if they tion. eat too much buckwheat it produces an irritating effect on the skin. It is also claimed that if buckwheat straw is used for bedding for hogs that it irritates the skin. It can, however, be used as bedding for cows and horses.

MATE AGRICULTURAL

WANT LUMBER SUPPLY INSURED.

A in issue of long-time bonds with which the federal government could acquire extensive areas of cutover lands suitable for reforestation in the lake states, in the Appalachian regions and in the south, is the definite recommendation of the National Lumber Manufacturers' Association, as the solution to the problem of insuring a future lumber supply.

It is believed that such bonds could be exchanged for cut-over, lands as fast as they are available, or the bonds could be sold and the proceeds used for the same purpose, and would be repaid ultimately from the proceeds of the forests.

SEEK RELIEF FOR WESTERN FARMERS.

PROGRAM for the relief of farmers of the northwest laid before President Coolidge by Representative Summers, of Washington, included the increase of the tariff on wheat to sixty cents; creation of a government agency to handle export wheat; reduction of freight rates on farm products, and cooperation of business interests with wheat growers.

WANT NATIONAL SYSTEM OF CO. OPERATIVE MARKETING.

N the closing hours of the National Grange session at Pittsburgh, a committee of seven men was appointed to develop a national system of cooperative marketing. This committee

will meet in Washington early in December to develop the details of the proposed marketing plan.

The system is predicated on the Federal Farm Loan Board organization, and is to be brought about by congressional action. It contemplates the creation of a federal cooperative marketing board, the members presumably to be appointed by the President. The country will be divided into twelve regional districts corresponding to the present Federal Land Bank districts. Local cooperative marketing associations will be formed in connection with the regional organization, similar to the Federal Farm Loan Association.

The central board is to be a source of dependable information as to transportation, distribution, supply and probable demand in the various markets, the purpose being to secure more economical distribution, and reduce losses due to market gluts and over and under-supply caused by imperfect distribution of farm products.

The plan at present is only in the incipient stage. It is probable that when worked out to a practical basis, a bill will be introduced in congress. providing for its establishment and operation.

SOME CONGRESSIONAL PROB-LEMS.

HE movement to reduce taxes is meeting the approval of all part-Leaders on both sides of the house and senate have spoken favorably of the Mellon tax reduction plan, in some instances with modifications and amendments.

It is evident that there will be some differences of opinion among farm organizations in regard to Secretary Mellon's plan. Some of the farm organization representatives will oppose a reduction of surtaxes and also elimination of the taxes on moving picture shows and other so-called nuisance taxes

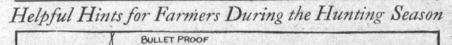
There promises to be a hot fight early in the session on the tax revision problem.

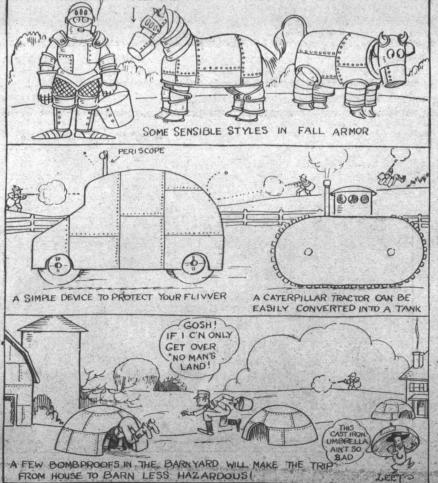
Some farm organization leaders say that the farmers are not nearly so interested in income tax reduction as they are in reduction of real estate and personal property taxes. These taxes are piling up so high that the farm owners have little income left after paying taxes.

The majority party has two candidates for floor leader of the house. Representative Longworth, of Ohio, a conservative, and pronounced wet, is one. Representative Graham, of Illinois, representing the more progressive western group, and standing for the eighteenth amendment and law. enforcement, is the other.

Mr. Graham announces that he is not a radical, but the movement to make him house leader is a "sane, progressive" one. His program includes legislation to insure lower freight rates and to deal with the coal situation. If congress does not make an effort to consider these matters, he thinks that a lot of people in the country are going to ask why very emphatically.

A cooperative creamery, in which the farmers from three or four townships are interested, is being organized in Mason county.





Fordson

"To put the farmer on a par with the city manufacturer. To put his produce factory—for that is what a farm is—on an efficient production basis."

Spurred by this ideal, Henry Ford brought the Fordson Tractor into being.

Himself a farm boy, who had followed the plow for many a weary mile, no one knew better the need for quicker and easier farm power.

Producers in other fields were harnessing steam, gas and water power to drive wonderful machines which multiplied many fold the day's work of the individual.

But the farm was at a disadvantage. This power machinery which brought such rewards in the form of bigger profits and better working conditions in the cities was lacking. A smaller income was returned in proportion to the work done.

That the Fordson should never falter in making possible a better day on the farm, a score of years of patient work preceded it. Today on hundreds of thousands of farms it increases the daily work done, adds to the farm income and allows a more pleasant farm life.

Ford Motor Company

CARS · TRUCKS · TRACTORS

Ask Any Ford Dealer



The bottom of the barrel

HERE was an old lady who took only a spoonful or two of flour from a barrel each day and noticed that the bottom was still far away. She exclaimed, "Why this barrel of flour will last forever.'

But the bottom finally came. In your soil there are three plant foods-nitrogen, phosphorous and potash. Every crop you

grow takes its toll of each of these three elements. You replace some of the food by growing legumes, by rotating your crops, and by returning the farm manure.

But do you return all the potash that is removed? If you do not, there will come a day when the "bottom of the barrel" will be reached.

Manure alone will not do it. You must add potash to your mixed fertilizer, or buy mixed fertilizer that contains plenty of potash.

The use of potash is profitable. Potash

If you buy mixed fertilizer insist on a formula that is high in potash.

Your dealer has Genuine German potash in stock, either in the form of mixed fertilizer or in 200 pound sacks.

Should he be temporarily out of it, write us and we will tell you how and where to get it in the grade you wish.

Since May 1st, 1923, the distribution of German Potash, formerly managed in this country by the German Kali Works and the Potash Syndicate, has been con-trolled by the

POTASH IMPORTING COR-PORATION OF AMERICA NEW YORK 81 FULTON ST.

Genuine German DIASH



Will relieve Coughs and Colds among horses and Colds among horses and mules with most satisfactory results. For thirty years "Spohn's" has been the standard remedy for Distemper, Influenza, Pink Eye, Catarrhal Fever, Heaves and Worms. Excellent for Distemper and Worms among dogs. Sold in two sizes at all drug stores. SPOHN MEDICAL CO. GOSHEN, IND. U.S.A. ABSORBINE STOPS

from a Bone Spavin, Ring Bone, Splint, Curb, Side Bone, or similar troubles and gets horse going sound. It acts mildly but quickly and good results are lasting. Does not blister or remove the hair and horse can be worked. Page 17 in pamphlet with each bottle tells how. \$2.50 a bottle red. Horse Book 9 R free.

ABSORBINE, JR., the antiseptic liniment for mankind, reduces Painful Swellings, Enlarged Glands, Wens, Bruises, Varicose Veins; heals Sores. Allays Pain. Will tell you more if you write. \$1.25 a bottle at dealers or delivered. Liberal trial bottle for 10c stamps. W. F. YOUNG, INC., 468 Lyman St., Springfield, Mass.

The Famous Pontiac Strain THE NATIONAL SHOW

MILWAUKEE

Competing with the world's best, we entered—15 FOXES—and brought home—7 RIB-BONS—Second largest number of prize winners at the show.

MYSTERY 962--LADY BESS 964

Rochester Ranch-only SIX other Foxes of approximately 500 shown

BUY PONTIAC STRAIN FOR WINNERS

It's blood that tells—the aristocracy of Foxdom—that is what YOU want for YOUR foundation stock—in other words PONTIAC STRAIN—and—service equal in quality.

THERE'S A STORY

Of the 1923 show at Milwaukee and PONTIAC STRAIN FOXES you'll want to know we'll gladly send it along—Just send your name and address—a post card will do—you'll find it interesting—DO IT NOW—TODAY—It may mean dollars.

Foxes

THE DETROIT SILVER FOX FARMS

Ranches Rochester, Mich.
Winnipeg, Man.
Offices, 1515 First National Bank Bldg.
Mich.

Breeding Pens

Fruit Men Get Together

Production and Selling Costs Chief Problems

By Frank A. Wilken

many agricultural activities during week of November 20, and the fruit growers' meeting was chief among them. This was a three-day session, from November 20-23, in which most of the outstanding problems were discussed.

The opening talk was given by Mr. George Starr, of the Michigan Agricultural College horticultural department. He recommended certain vegetables to be used for inter-cropping with fruits. Many farmers are using melons to inter-crop their orchards, and find it profitable, he said.

What is perhaps one of the finest pieces of experiment station work is being done by Mr. Stanley Johnston. He told of what he has accomplished by various methods of pruning black raspberries. The results generally show that heavy pruning pays. Mr. Johnston has gone into such detail in this work that he knew just what each twig and bud did. Much of this new and enlightening work will be reviewed in these columns in an article by

Spraying Controls Leaf Spot.

Professors Wells and Dutton gave the results of their work in the control of the cherry leaf spot. They found that defoliation caused serious loss in the crop the following year. However, lime-sulphur, 11/4 to 50, properly applied, kept the leaf spot in very good control. Bordeaux produced good control but caused leaf injury when climatic conditions were favorable for such injury. Bordeaux made with an excess of lime prevented injury but caused a dwarfing of the fruit.

Mr. W. P. Hartman, of the Bureau of Foods and Standards, and of the State Department of Agriculture, said that there are billions of dollars worth of business done by farmer cooperation in this country. However, there is still opportunity for great improvement in cooperative work in Michigan. The lack of grading costs the Michigan potato growers many thousands of dollars because Michigan potatoes were discriminated against on that account. Better grading of fruit this year has probably been responsible for Detroit merchants featuring Michigan apples this year as never before.

Mr. A. L. Watson, of Strawberry Acres, near Grand Rapids, told of his profitable experience with Ever-bearing strawberries grown under the overhead irrigation system.

Wants Fruit Futures Recorded.

In his speech Wednesday morning, Mr. James Nicols, president of the Michigan Fruit Growers, Inc., took a rap at the present methods of selling futures in fruit. Often a buyer would sell early in the season and then use the rest of his time "bearing" the market to get fruit as cheap as possible to fill his sales. On the stock exchanges and boards of trade, future sales are all recorded and such a system in the sale of fruit would eliminate much of the injustice which now prevails. The trucker-peddler was also a problem, Mr. Nicol said, as he did not come under the jurisdiction of grading and package laws. Thus he often bought cheaply and spoiled the markets for the standardized products.

Mr. A. L. Pino gave the results of his experience as a market master in Detroit and Lansing, after which the student speaking contest took place. In this contest H. J. Wilkinson, of Detroit, won first place his talk being on the need of cooperation. E. R. Bristol, of Alpena, Michigan, got second, by telling of the value of local storage. Miss Lillian Lewton, of Washington, D. C., was the first girl to enter these contests and is to be congratulated on winning third place. Her subject was, 'The Local Apple Market."

In the student judging contest, W.

RAND RAPIDS was the scene of G. Lensen, of Traverse City, won first prize, making 348 points out of a possible 550. G. J. Stout, of Cedar Springs, got second place, and Miss Lillian Lewton again came into the winnings by tying with Don Uebele, of Blanchard, for third place.

In the business meeting which followed, A. J. Rogers was re-elected as president. The other officers re-elected were: T. A. Farrand, secretary; J. P. Munson, treasurer, and V. R. Gardner and R. J. Coryell as members of the executive committee. It was also decided to hold the annual meeting during the first week in December, as has been the custom, instead of earlier, as was the case this year. Better crowds attend the later meetings.

Carlot as Closed Packages.

At the business meeting, numerous resolutions were passed. One expressed sentiment against the use of the words "cider vinegar" for vinegar made out of peels and cores. Another extended sympathy and expressed a loss of counsel and inspiration to Michigan horticulture through the death of Mr. Roland Morrill. A truthin-fruit-juice bill was advocated in another. An adherence to the principles of cooperation and reaffirming the society's stand in favor of the gasoline tax as a just means of raising funds for maintaining roads, made up two other resolutions.

A resolution asking that carlots of bulk apples be considered as closed packages, and as such be placed under the requirements of the closed package law, was passed after considerable discussion. Another resolution which caused discussion was the request that an amendment be made to the Capper-Tincher law to require that future sales of apples be listed or reg-

To Encourage Cider Drinking.

In order that pure-fruit drinks be made more popular, the society asked in resolution that the M. A. C. engineering department put its talent to the development of a hand cider press that could be used at soda fountains to press apples as cider is needed.

Commending the cooperation between the potato and apple men in making the apple and potato show a success, and commendations of the M. A. C. horticultural department and the State Department of Agriculture for their good work, constituted other resolutions.

Prof. R. B. Cruikshank, extension specialist in pomology in Ohio, gave a very interesting talk on the New York apple show. This show is free to the public for the purpose of advertising the apple to New York people. Various states surrounding New York exhibit at this show, in most cases the state appropriation making the exhibits possible. He said that the quality of the Michigan fruit exhibited here was very good. As he was one of the judges he knew whereof he spoke,

Need Quality Before Advertising.

That Michigan fruit should not be advertised was the startling statement of F. L. Granger, a fruit buyer from Benton Harbor. He said that it was not advisable to advertise a product until it was worthy of advertising and the Michigan product would have to be packed and graded much better than it is to make the advertising pay. The money spent for advertising should first be used, for better spraying, harvest, and other orchard methods. However, Michigan has the best geographical location in the world for success in fruit growing as it is in the center of a consuming population of forty million people.

Prof. V. R. Gardner, of the M. A. C. horticultural department, gave a very interesting talk on marketing apples.

(Continued on page 588).

Farmer Grows Prize Spuds

the conclusion that the majority of the tion. best potatoes exhibited are not from from the fields of general farmers. splendid exhibit of potatoes at the lord. The man who won the largest number of the prizes on that occasion plied this spring. was Charles Herron, a general farmer of Alpena county.

The two hundred acres owned by Mr. Herron were originally covered



with hardwood. Ninety acres of it are now under cultivation. The surface soil is a sandy loam. He keeps eight

milch cows and a substantial herd of sheep. He grows the usual rotation of crops, with potatoes as the cash product. He makes a specialty of growing certified seed, his crop this year being passed by the college in-

fitted him for taking up the certified ning a place with strong competition.

REVIEW of the winnings at popotato seed work inaugurated by the tato shows in Michigan leads to Michigan Potato Producers' Associa-

The crop which passed inspection the farms of potato specialists, but and from which exhibits were selected to compete in the above show, and Such was particularly the case at the also at Grand Rapids, was grown on a clover sod plowed last fall and re-Top O' Michigan Show held at Gay- plowed during the latter part of May. A light dressing of manure was ap-

> 'We had an unusually dry season this year, and I am confident," stated Mr. Herron in a recent interview, "that the fall plowing and the thorough cultivation given this field kept the potatoes growing through the drought period while many other fields, lacking this attention, succumbed."

> Large pieces of potatoes were used for seed. These were treated with corrosive sublimate solution to protect against scab and black scurf. On June 10 the seed was planted in hills twenty-seven by thirty-six inches apart so the field could be cultivated both ways.

The field consisted of sixteen acres of which four were reserved for the He made his debut into the certified production of certified seed. These seed game with his own stock. For a four acres averaged 310 bushels per number of years he had practiced hill acre. From them were selected five selection. This experience naturally entries to the above show, each win-

Music on the Farm

Mr. Reber Leaves Grand Opera to Find Real Music

low to feel glad that he is alive. I music which you can actually smell speak not of the classical caterwaul- and don't be sparing of the butter, ing which city folks pretend to enjoy, because there is plenty cream on the but real music which the farmer may listen to with real pleasure. Ferinstance, is there any music more pleasurable than the rustling of the fodder barn?

I once belonged to a church choir. We had a soprano who sang terrible, an alto who sang awful, a tenor who sang dreadful, and a basso who had them all skinned when it came to making lugubrious wails, that was me. Our favorite anthem was, "O, that I had wings like a dove." We howled it over and over in several keys, and I know now that the men of the congregation wished, too, that they had wings like a hawk so that they could fly away and massacre each and every dove. Finally, I really did fly away, and now I do my singing behind the plow

Once upon a time I traveled with real highbrows and took in those warts on the musical world called Great lands of hoop Grand Opera. snakes and quill-throwing porcupines, how those performers did howl and yowl. They kept it up for three hours

The only thing which saved me from horrible boredom was to watch the deep breathing of the villain. He wore a brass medal over his duodenum as big as a dinner plate, and that medal rose and fell like the waves of the No wonder he could howl so loudly, for evidently he breathed clear down to his feet. All of this just so may know that I am judge of music.

All right, now come with me and listen to the real thing. Come along out to the scratching pen and listen to the pullets doing some real singing while they busily search for grains. It is music of hope and promise, real satisfying to the soul and speaking in endearing terms of a full egg basket. Oh, Boy, that is music indeed.

For variety's sake there is the whistle of the wind around the corner of the house on a winter evening. Put strawberry beds.

HERE'S music in the air these on another maple or beech knot and days; real music which tickles make a little military music of your the inner ear and causes a fel-own with the corn popper. That is pantry shelves.

Didje ever notice that all these newfangled inventions are for the farmer? City folks can listen to fresh and canas the stock chew their evening meal; ned music any time they will, but the in the warmth and shelter of the radio is the real "cat's meow" for the farmer. We can sit by our own fireside and tune in on the best there is. want a radio set so durn bad I can taste it, but at present I must hie me to a neighbor's. You see, taxes come first, but-, oh me, oh my! Here I have gone and introduced a discordant

I can hear a little music right this There is the alto b-a-w-l of the hungry calf, the crescendo m-e-o-w of the cat's waiting for warm milk, the basso 1-o-w of the impatient cow and the shrill solo of old Barney waiting to know if a decent, respectable horse must wait all night for his sup-Come along, son, and listen to the merry patter of the milk in the pail, while the fodder rustles a soothing tune of warm contentment.

There's music in the air these days and the best tune of all is "Down On The Farm."

HOW ONE CHEF GETS THE POTA-TOES HE WANTS.

RECENTLY while being entertained at one of the club restaurants in Chicago, Mr. Thomas Buell, president of the Michigan Potato Producers' Association, had occasion to talk with the chef about his supply of potatoes.

This chef explained that his business required a special grade of potatoes. The only way he could secure what he wanted was to go to the market and buy a large supply of the best grade offered, bring these to his storeroom, dump them and sort out the tubers suited to his needs, bag up the rest and send them back to be sold on the market for what they would

Farmers are urged by the horticultural department of the M. A. C., to look after the proper mulching of the

Why you should use

Gargoyle Mobiloil Arctic

STUDEBAKER ENGINE BUICK ENGINE MAXWELL or OVERLAND ENGINE

ENGINE

during winter

INTER makes fresh demands upon the lubricating system of your automobile engine.

It is essential that your lubricating system provide immediate and thorough distribution of the oil to all

Some lubricating systems distribute the heavier-bodied oils under summer operating conditions, but due to certain features of design will require an oil of special fluidity now that winter is here. This is not true of all cars as some are designed to use the

STUDEBAKER All Studebaker engines are lubricated by a Splash Circulating lubricating system. A gear type oil pump, located on the rear of the engine and on the cam shaft level, about 10 inches above the oil level, forces oil directly to splash troughs under each

The connecting rods dip into the oil in these troughs, creating an oil mist which lubricates all engine parts.

Oils of good fluidity atomize more easily and more thoroughly than heavier-bodied

Under the lower operating temperatures of winter it is important that the oil be of good fluidity in order to assure thorough distribution to the piston pin bearings, cylinder walls and pistons, as well as all other engine parts.

Gargoyle Mobiloil Arctic meets these requirements.

MAXWELL

The positive operation of the Maxwell Force Feed lubricating system depends upon the impellor type oil pump receiving an unfailing supply of lubricating oil.

As the pump is located at a considerable height above the oil level with both the oil suction and discharge lines outside the crankcase, it is important in cold weather to use an oil of exceptional fluidity. Otherwise circulation of the oil may be interrupted.

Gargoyle Mobiloil Arctic possesses the proper fluidity to assure the thorough priming and distribution necessary under these conditions and has the proper character to provide adequate engine lubrication.

BUICK

The Buick engine employs a splash circulating system of lubrication. In this system, lubrication of the cylinders, pissystem, Indication of the cyniders, pis-tions, piston rings and piston pin bearings depends solely upon an oil mist created by the connecting rods dipping into the oil in troughs located in the crankcase.

In the 1923 engine slotted covers are placed over these splash troughs. These covers materially cut down the amount of oil mist created and limit the quantity supplied to the working parts.

Where the cylinders, pistons, piston rings and piston pin bearings are so lubricated, the lubricant used during winter must possess special characteristics.

It must be of the proper fluidity at the low temperatures encountered to be atomized immediately and thoroughly by the dipping action of the connecting rods. At the same time, its character should be such that adequate lubrication is provided under all operating conditions.

same oil both summer and winter.

Among others, the Studebaker, Maxwell, Buick and Overland lubricating systems employ certain features which make it imperative to use a winter oil which will not unduly thicken or congeal in cold weather. If you drive any of these cars the following information should not only be interesting, but helpful, if the recommendations are followed, in improving winter performance and reducing the troubles which cold weather operation produces.

Unless a lubricating oil is used which meets these requirements, insufficient lu-brication and poor distribution with resultant premature wear of the working parts may occur.

Gargoyle Mobiloil Arctic perfectly meets these requirements. This oil is of such fluidity as to readily and thoroughly atomize at low temperatures and is of such character as to provide highly efficient engine iubrication.

At the same time, due to its clean burning character, Gargoyle Mobiloil Arctic will result in a minimum of carbon deposits and carbon troubles.

OVERLAND

The Splash Circulating lubricating system of the Overland differs radically from the conventional type. The flywheel is used as an oil pump. Running with its lower edge continually immersed in the engine oil, it throws the lubricating oil by centrifugal force into a small pocket where it passes through a strainer. From this the oil flows by gravity through a distributing pipe to the three main bearings to troughs located under each cylinder bore and to the timing

The splashing action of the flywheel also circulates the oil in the transmission and clutch assemblies and thus provides for their lubrication.

Due to the immersion of the flywheel in the oil, sufficient quantities may not be supplied to the engine for its lubrication if the oil is congealed or of heavy body. Excessive fluid friction drag will also result. Then too, heavy-bodied oils cause clutch slippage. Oils when congealed or too heavy-bodied do not squeeze out from between the clutch plates as readily as the lighter bodied, free-flowing lubricants.

The lighter bodied lubricants, from a distribution standpoint, are most efficient in this engine. Due, however, to the fact that the engine oil also lubricates the trans-mission unit, the lubricant must have the haracter necessary for a proper cushioning of the gear teeth.

In winter Gargoyle Mobiloil Arctic is of the proper fluidity to provide immediate and thorough distribution in an Overland engine. It protects against an undue amount of fluid friction drag. It provides adequate transmission lubrication.

IMPORTANT

If your car is not among those here, see our Chart of Recommendations for the correct winter oil. Leading dealers have the Chart, or our nearest Branch will gladly send you a copy.

Address our nearest branch:

New York (Main Office) Philadelphia

Boston Detroit Minneapolis Des Moines Rochester

Chicago St. Louis Pittsburgh Kansas City, Mo Dallas Oklahoma City

COMPANY VACUUM OIL



on Snow and Ice!

Here, at last, is the perfect light weight all rubber pac, all time favorite with hunters and trappers. The "Trapper" fits perfectly. Special ribbed front con-struction gives added strength and protects against chafing and snagging. Low flat heel insures sure-footedness under all conditions. Flexible upper makes walking easy. Comfortable fit over wool socks. Insist upon the genuine with the big "C" on the sole. Try on a pair today! Or write us today for circular and full information. circular and full information.



The longest wearing work rubber ever made! Often imitated but never equalled for comfort and service. Easy to put on. Fits perfectly. Hugs the ankle tight and high. Double ply uppers and extra thick White Tire Sole. Amazingly serviceable. Try on a pair today!

Converse Rubber Shoe Co.

MASSACHUS TTS FARMS FOR SALE

Do You Know

-that 3,852,000 consumers live in Massachusetts

that one-fourth of all consumers in the U.S. live within 250 miles of Boston

that there are 908,000 acres of improved land with crops worth over \$44,000,000 in 1922

-that Massachusetts farms can be bought from \$10 to \$600 an acre -that all Massachusetts farms are within 30 miles of a city market -that New England's highways and

transportation facilities are unsur-

that Massachusetts offers great ed-ucational and social advantages for young people.

Then WHY NOT Come

—where the consumers live

—where the big markets are

—where farming is intensive rather
than extensive

where farms are cheap where markets are near

where transportation is easy
where there are social and educational advantages?

Do this today—write for Bulletin of Mass. Farms for sale. It's Free. Address. DR. A. W. GI'BERT, Commissioner, Mass. Dept. of Agriculture, 136 State House, Boston, Mass.

delion Butter Color" Gives That Golden June Shade and Costs Really Nothing. Read!

Before churning add one-half teaspoonful to each gallon of winter cream and out of your churn comes butter of Golden June shade to bring you top prices. "Dandelion Butter Color" costs nothing because each ounce used adds ounce of weight to butter. Large bottles cost only 35 cents at drug or grocery stores. Purely vegetable, harmless, meets all State and National food laws. Used for 50 years by all large creameries. Doesn't color buttermilk. Absolutely

Wells & Richardson Co., Burlington, Vt.

The Apple and Potato Show THIS BIG

Exhibition at Grand Rapids a Big Success .

up one of the greatest exhibits of the normal has been the greatest discovproducts of the soil Michigan has ever ery in recent agricultural history. His seen. There were enough apples there talk will be given in detail in a future to cause a thousand Adams to fall, and issue. sufficient potatoes to keep the Chicago police force fed for nearly a year.

make efficient care of these farm were very successful in Michigan. products easier.

Entertainment Features.

terested urban and rural folks alike. There was "Big Rich," the Hoosier humorist, with his own and James Whitcomb Riley's poems, and jokes both old and new. And Schneider's Orchestra entertained with both jazz and sensible music, besides they played for the old-fashioned dances which were held every evening. At these dances, young fox trot experts were tried to demonstrate by dancing the dances of a generation past that they were just as young as they used to be.

In an educational way there were every form were shown, and potatoes know them. Other educational features showed the numerous uses of these both healthful and appetizing. city school children were admitted free so that they might learn what real good apples and potatoes were,

Champions Lose Out.

In the exhibitions, Lee Sneathen, of Charlevoix, winner of the sweepstakes at the big Duluth potato show, and boy who carried away the high spud honors at Gaylord were competing but neither got the big money here, although Sneathen got second place. Edward Sutton, of Central Lake, walked home with the sweepstakes, and Ernest Pettifor, who won the sweepstakes last year got third place. The other winnings are given on page 601.

On Wednesday and Thursday mornings the Potato Producers' Association discussed storage, standardization, poimplement men also held meetings to business.

(Continued from page 586).

He showed that there was an almost months of the year, but Michigan mar- case of the latter. keted about ninety per cent of its crop before December 1. This put Michigan fruit into immediate consumption, Color Your Butter gan fruit into immediate consumption, usually at low prices, or put it into the hands of speculators for future profit.

> teresting production figures on Duchess and Wealthies showed a profit of \$72 for the seven acres. Most of the growers present thought he was forent conditions.

Prof. J. H. Gurley, of the Ohio Ex- of the crop is being trenched.

HAT which will keep the doctor and fertilizer work in that state in his away, and that which has been talk on growth and fruitfulness. The the mainstay of the Irish, made use of nitrates on trees which are sub-

More Storage Needed.

Air-cooled storage for Michigan was The second Michigan Apple and Po- the subject handled by Prof. R. E. tato Show, which was held at Grand Marshall. Mr. Marshall showed how Rapids, was the occasion of the get-to- quickly Michigan fruit went to the gether of these two farm products. market, while New York and other ap-But apples and potatoes were not the ple states marketed their fruit more whole show this time. The implement evenly, because of more available shipmen were there in numbers with their ping-point storage space. He describexhibits of tools and accessories to ed some air-cooled storages which

Mr. James Jakeway, who has been associated with Mr. Roland Morrill in And on the side, for dessert there the development of the Hearts of Gold were entertainment features which in- melon, told of the history of its development. It was an accidental cross between Osage and Netted Gem in 1890. Since then it has been selling to the most discriminating trade in competition with the best Colorado and California trade. The variety has been imitated, and even seeds stolen and marketed under other names.

Cherry Marketing Problems.

In his usual spirited manner, Mr. wall flowers, while gray haired folks George Firday gave some hints on marketing cherries. He said that Michigan would soon be the cherry center of the country, and therefore the marketing problem was one which demonstrations in the preparation and needed serious consideration. Among use of apples and spuds. Apples in the new methods suggested was the pitting of cherries and marketing were dressed up so you would not them in kegs so that housewives could do their own canning. The housewife always prided herself on her hometwo products in means which were canned product, but disliked the pitting work. The method suggested would therefore open a larger market, he thought.

Prof. F. C. Bradford, of the M. A. C. and housewives were given the oppor- horticultural department, gave the retunity to show their preference in sults of his experimental work with fertilizers in orchards. His general conclusions are that the nitrogen fertilizers have produced results, but the effects of other fertilizers have been doubtful. The gains from nitrogenous Edward Domke, the seventeen-year-old fertilizers have been greater in sod orchards than in cultivated ones.

Thinning Pays.

session was by Robert Anderson, of Covert, who related his experience with thinning peaches. He found that good feeding of plums and peaches paid and that productiveness could not be lessened by over-feeding as in the case of apples. The trimming should be light when winter has had an effect on the buds, and heavy when the buds have come through strong and without tato diseases and cooperation. The injury. Good thinning on well-pruned trees produced good fruit. In his tests, discuss the problems which beset their Mr. Anderson found that his unpruned but thinned trees produced an average of six bushels, of which four were B FRUIT GROWERS GET TOGETHER. grade and two A grade. On a pruned and thinned tree there were only five bushels, but four of them were A-grade and only one B-grade. The net constant demand for apples during ten results were twice as great as in the

WASHTENAW FRUIT GROWERS MEET.

hands of speculators for future profit.

The president and manager of the A BOUT one hundred fruit growers of Washtenaw county gathered at South Haven Fruit Corporation, Mr. F. the Chamber of Commerce at Ann Ar-E. Warner, who has hundreds of acres bor recently for a luncheon and took of fruit in his charge, gave some in- preliminary steps toward forming a permanent county horticultural sociess, Wealthies and Baldwins, which ety. Thomas Applegate, of Milan, was showed that the production costs were chosen president, and L. A. Seamans, thirty-two cents per bushel. The Bald- of Ypsilanti, secretary. Another meetwins are still in storage, but the Duch- ing will be held to complete organiza-

During October, 220 cars of celery tunate to make that much under pres- were shipped from Decatur. Market conditions being somewhat slow, much



ress and 10 cts and I'll send The Grona Man
ou prepaid, this liberal size somple hex
or Corona Wool Fat Compound, I am making this
offer so you can see for your
self what a wonderful healing
ointment it is—how quickly it
will heal any cut or wound on
man or beast. For chapped
hands—frosted feet—chillblains—cuts—bruises, etc.
it has no equal. Also for wire
cuts—galled necks—sore
shoulders—split hoofs, sore
feet, scratches—sore teats

Heals—Seldom **Leaves a Scar**

any a valuable animal has en saved disfiguring blem-ies by Corona Wool f'at. Cor-a is made from oil extracted om the wool of sheep—it is ry penetrating—the only paration that will penetrate a me's hoof-yeit is will not burn or seer-very soothing and bealing.

Keep in Home and Barn

Write for This Sample Send name and address and 10c today. This sample will prove to you that you can't afford to be without CORONA

THE CORONA MFG. CO.

NEW LAMP BURNS 94% AIR

Beats Electric or Gas

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J. O. Johnson, 609 W. Lake St., Chicago, III



Still More Tax Facts

How the Distribution of Taxes in Michigan Compares with Savings and Commercial Accounts in Banks

By John R. Rood

counties of the state, we have compiled, from the report of the Michigan State Banking Commissioner for 1922, the amounts of the bank deposits in commercial checking accounts, savings accounts, and saving certificates, and have compared them with the assessed valuation of property in the same year in the same counties.

It is probably true that with an individual the amount of his savings account would, in most instances, be a engaged in business find they can use their money more profitably in their business than in savings accounts, but some reflection of their business would be found in the amount of their sult will justify the effort.

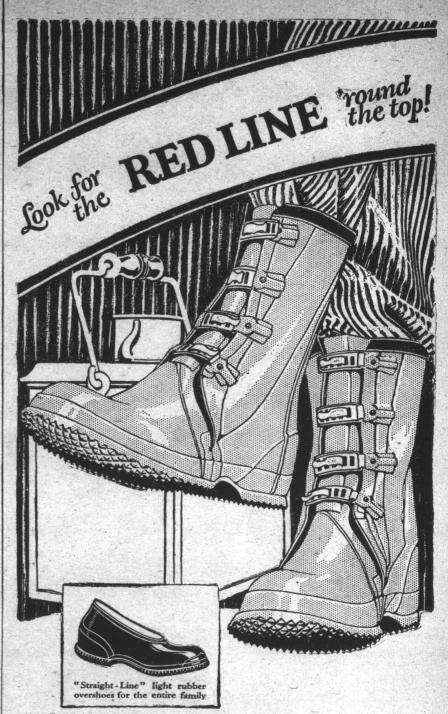
S a further check on the relative checking accounts. On the other hand, wealth and taxes of the several undoubtedly many persons of small means have quite substantial savings accounts. But it is believed that when total bank deposits of all persons in the community in checking accounts, savings accounts and savings certificates are added together they will be found to throw some light on the wealth of the respective communities.

When we compare this table with the ones previously published it points to the same conclusions in general, that are indicated by the other tables. misleading index to his wealth. Men It is believed that the readers will find comparisons of these tables both interesting and instructive. We have been to no small pains in compiling the statistics and trust that the re-

Banking Accounts and Taxation in Michigan

Bank Deposits Sept. 6, 1921. Bank Commissioner's Report.

	. te.		cial .	of ts.	age 921 a-	
County.	Savings Book and Certificat		Commercial on Check.	County's Per Cent of State's Total of Both Accts.	+0-1	al- is in 1.
County.	vin Sok		Change C	untre Cate, ate, tal	Percen of State Taxes Equalized	Tax Valuations in 1921.
Alassa					HATE H	Ta ua in
Alcona	\$ 213,928.64 794,623.84	\$	77,705.89 646,500.55	.00028 $.00141$.000822 \$	4,831,000 13,413,016
Allegan	3,533,552.98 4,427,016.36		1,799,844.46 845,747.20	.00523	.008043	44,500,000
Antrim	654,792.39 744,337.95		354,569.67	.00099	.001298	15,364,000 8,744,885
Baraga	No State	nor	301,300.16 National Ba	.00103 nks.	.001188 $.001379$	5,824,060 $7,162,000$
Barry	2,730,182.37 15,006,517.71		1,064,465.09 6,562,515.53	.00372 $.02115$.005201 $.011995$	22,654,182 80,512,173
Berrien	410,976.89 7,969,005.04		348,940.44 6,254,616.47	.00075	.000754	5,058,353
Branch	2,522,192.70		1,214,856.71	.00366	.015053	66,555,438 28,857,503
Cass	17,532,444.71 1,935,031.38		6,392,083.38 1,057,131.42	.02346 $.00293$.020262 $.005244$	90,907,349 20,000,000
Charlevoix Cheboygan	1,122,024.51 1,372,044.98		807,791.04 592,778.67	.00189	.002087 .001456	11,923,242 8,511,260
Chippewa	2,641,796.96 859,304.36		1,734,018.27 420,830.12	.00429	.004542	28,095,100
Clinton Crawford	1,922,773.60		1.227.052.05	.00126 $.00309$.001142	7,609,170 33,233,520
Delta	5,263,138.45	e no	r National B 2,031,507.77	anks. .00715	.000631 $.003988$	4,234,000 21,018,493
Dickinson	3,063,996.60 3,922,669.88		1,374,043.32 1,797,605.06	.00435	.003243 .008408	16,734,288 34,000,000
Emmet	1,253,512.71 20,568,875.97		1,538,889.56	.00274	.002282	14,844,113
Gladwin	194,963.65		9,359,750.89 544,448.74	0.02935 0.00072	.032814 $.001368$	165,205,635 9,053,468
Gogebic Grand Traverse	2,849,357.33 2,728,668.89		1,734,165.97 2,057,173.87	$0.00450 \\ 0.00469$.012116 $.002423$	69,947,426 15,499,182
Gratiot	2,798,398.12 2,039,021.17		1,445,299.77 1,462,530.81	.00416 $.00343$	009096 007072	45,000,000
Houghton	11,299,834.19 2,629,621.24		6,432,646.67	.01739	.013432	34,889,280 64,081,653
Ingham	10,151,045.16		1,472,736.59 9,201,957.33	.00402 $.01898$.	007827 024631	37,553,415 165,189,808
Ionia	3,703,225.26 No State 1	nor :	1,661,403.54 National Bar	.00526 ks.	.007928 $.001336$	35,554,486 7,133,735
Iron	1,978,299.92 2,014,117.23		1,025,258.42 1,036,541.21	.00295	.007125	41,031,974
Jackson Kalamazoo	7,630,116.80 11,141,412.92		6,531,507.67	.01389	.019434	25,440,345 127,609,260
Kalkaska	.106,683.34		7,253,085.79 112,553.05		.021014 $.000707$	99,730,402 4,746,148
Kent Keweenaw	33,038,197.40 193,257.42		22,601,872.68 171,056.91		.049900 $.003181$	265,480,737 16,113,997
Lake Lapeer	No State 4,241,636.84	nor	National Bar 1,050,359.25	nks.	.000405	2,744,292
Leelanau Lenawee	671,845.17 10,076,313.43		149,934.23	.00081	005395 000998	27,000,000 6,631,400
Livingston	1,915,561.71		3,645,704.34 828,624.32		0.014640 0.004805	71,383,920 26,681,304
Luce	330,367.77 550,366.11		203,796.32 525,864.27		0.001466 0.001292	9,810,880 8,628,205
Manistee	10,484,082.90 2,349,887.24		2,580,080.65 1,185,912.27	.01281	.012684	55,000,000
Marquette	8,497,638.21 2,712,985.74		3,951,863.16	.01221	002699 011171	14,000,000 66,178,000
Mecosta	1,771,853.57		970,925.03 754,363.21	.00248	0.002832 0.002517	18,611,036 16,094,276
Menominee	2,496,645.01 1,234,107.03		1,402,802.92 876,091.48		.003647 .002892	20,500,000 16,560,649
Missaukee Monroe	96,385.26 4,377,416.47		132,570.40 2,204,413.40	.00022	.000724	3,749,000
Montcalm Montmorency	2,803,575.52 132,936.22		1,304,418.27	.00403	.012580 .005470	49,001,205 30,000,000
Muskegon	7,484,439.64		105,530.79 3,376,764.68	.01065	.000521 $.012285$	3,000,000 54,000,000
Newaygo Oakland	2,235,419.62 17,903,047.46		723,076.78 7,841,535.47		$003061 \\ 030901$	20,474,746 139,613,081
Oceana Ogemaw	828,504.05 100,434.83		390,207.86 29,156.07	.00120	.002300 .001912	12,840,636
Ontonagon	577,708.23 1,678,307.84		617,226.45 521,700.07	.00068	.002841	6,795,000 18,179,465
Oscoda			105,350.94		001983 000336	13,300,000 2,000,000
Otsego Ottawa	423,463.04 8,793,395.49		254,674.92 3,245,205.95		000926 009828	6,212,000 53,726,736
Presque Isle Roscommon	1,507,171.92 98,490.21		322,356.49 98,452.96	.00179	.001215	8,188,913
Saginaw	23,134,792.42 4,689,024.12	1	2,364,495.91	.03481	.000359 .021869	2,405,115 126,342,742
Schoolcraft	937,252.16		1,805,839.71 561,509.06		.008050 .001801	37,405,195 11,961,173
St. Clair	5,440,705.58 9,964,879.91		1,652,496.40 5,183,896.77	.00695 .	008232 014124	39,539,021
St. Joseph Tuscola	4,179,935.15 3,313,675.52		1,828,017.79 938,372.14	.00589 .	007117	59,640,000 34,949,827
Van Buren Washtenaw	3,098,556.40 12,126,967.19		2,401,444.53	.00539 .	007441 006376	33,572,708 28,000,000
Wayne 2	259,931,229.97	20	5,513,465.35 6,265,978.85	.45716 .	$017661 \\ 407709 2$	81,152,225 ,307,080,086
Wexford	1,846,905.43		880,083.44		002497	16,748,342



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And that is to insist on the genuine "Hi-Press." You can always tell it by the RED LINE 'round the Top.

That RED LINE is today a sure guide to greater footwear economy for millions of users.

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Goodrich I-PIKESS

Rubber Footwear

What's the Verdict?

THE test of a mealtime drink is not alone how it tastes, but also what it does. Many a coffee-user finds wakefulness and restlessness after drinking coffee with the evening meal—and other healthdisturbances follow on.

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There's charm without harm in Postum.

Let a ten-days' trial of Postum instead of coffee show you the marked improvement in health and comfort which so many others have found.

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Your grocer sells Postum in two forms: Instant Postum (in tins) prepared instantly in the cup by the addition of boiling water. Postum Cereal (in packages) for those who prefer the flavor brought out by boiling fully 20 minutes. The cost of either form is about one-half cent a cup.

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The money you can make raising foxes if you get the right start, is so enormous when compared to ordinary farming, as to be almost unbelievable. \$1750 to \$2500 per pair for quality breeding foxes is a fair average while single pelts bring from \$200 to \$600. Think of getting prices like this for animals that cost little more to raise than an ordinary dor. It requires some capital to start \$500 to \$1000 but we have than an ordinary dog. It requires some capital to start—\$500 to \$1000 but we have an easy partial payment plan that makes it easy for you.

The Secret of Success

depends entirely in getting the right start—begin with the right foundation stock. De Luxe Silver Foxes are strictly QUALITY BREEDING stock—second to none in the United States—Fox with show ring records. We entered ten De Luxe—Corwin foxes at National Fox Show held at Milwaukee Wis., Nov. 22-26 and won Six out of forty prizes. Having only 2% of all foxes entered, we made the wonderfull record of winning 15% of the prizes. We are booking orders now for 1924 cubs. Our supply will be limited, so we advise that you write promptly—we will supply you with the right stock—breed them for you—give you the benefit of our advice and experience—your profits will soon start you on the road to fortune. Write for full particulars today if you want to go into the most profitable and fascinating kind of farming you ever experienced.

De Luxe Silver Fox Ranch,

Manistee, Michigan

FOX MEN MEET AT MILWAUKEE.I

(Continued from page 583). meeting, especially since the first fox show ever held in this country was only five years ago. The findings in scientific work among foxes was already being felt in better sanitation work among humans and animals. Dr. Dearborn felt that the great future use of the fox was for the profitable use of farm wastes. Waste grains from threshing, small apples and potatoes, skim-milk, and even wornout animals, can be more profitably used in producing furs for milady than in any other way.

Major Lambson, of C. L. Lambson & Co., London, England, the largest fur dealer in the world, was the next speaker. Although an authority on fox skins this was the first time he had ever seen a live fox, and he was surprised at the number and quality of animals shown. He was glad to see that the medium silver fox predominated for that sort of skin was in greatest demand. Before he left England his brother told him to be sure to tell the fox men that the silver fox skin was by far the best article on the London and continental markets.

Robert Treamer, one of the judges at the show, and American representative of the Lambson Company, said that he, too, was surprised at the showing made at this meeting. As to the future demand, he said that from the time of the old Hudson Bay Company, over two hundred and fifty years ago, furs have been articles of adornment for our ladies. This being so he felt certain that we could be assured a good market for two hundred and fifty years longer, and probably as long as women existed. His criticism of the animals shown was that their pelts contained a little too much silvery. A pelt showing about twentyfive per cent silver usually sold the best.

Dr. G. W. Olmstead, president of the Minnesota Fox Breeders' Association, and professor of languages at the Minnesota University, said that the future looked very bright for fox raising. He, himself, succumbed to the lure of live stock raising some time ago and is now a Holstein cow and Hampshire hog enthusiast. But his latest interest in live stock, the fox, predominates others as a hobby and for all profit. The fox, he said, was one of the most intelligent and interesting animals man comes in contact with.

He said the University of Minnesota had a separate department for furbearing animals, which was doing splendid work in controlling fox diseases. He believed that cooperative marketing of fox furs similar to the marketing of potatoes and apples would be one of the future developments.

Mr. J. R. Kelley, of the Northwest Farmstead, who has been responsible for the broadcasting of much fox news said that his publication, with a very constructive and conservative policy, considered the fox business sound and economically right. He informed us that the Minnesota State Fair was the first one to have an entire building devoted to fur-bearing animals.

Several meetings, during the time the show was held, were devoted to giving information to the public on the fox business. Motion pictures of ranches were shown and lectures given.

Indications are that Mr. E. L. Rans ford, of Muskegon, will be retained as president, and Justus E. Smith, also of Muskegon, will be secretary for another term. It is also very probable that the American Fox Association, with headquarters in Boston, will-consolidate with the National Association with headquarters at Muskegon, and that there will be only one herd book instead of two, as it is now.

The officers of the association decided to accept the invitation to hold the next annual meeting at Minneapolis.

Nitrate

Michigan Agricultural Experiment Station reports a gain of 7.47 bushels of wheat per acre from top-dressing in the spring with 100 lbs. of Nitrate of Soda. Virginia Sta-tion Bulletin

Wheat number 221 says, "On wheat crops needing nitrogen an increased yield of 5 bushels per acre can be expected from each 100 lbs. of Nitrate of Soda applied per acre." Demonstrations in Pennsylvania have shown an average gain of $7\frac{1}{2}$ bushels of wheat per

acre and 37% increase in the straw.

Station shows that the largest yields of potatoes are obtained when Nitrate of Soda is used as the sole source of Nitrogen. What is true of potatoes is true of other vegetables.

Early O Vegetables

They come earlier and main crops beand more prolific when Nitrate of Soda is used. This is why Market Gardeners use such large quantities.

debacco

Ohio and Virginia Experiment Stations report

wonderfully profitable gains from the use of Nitrate of Soda on tobacco. My own demonstrations in Pennsylvania prove that 200 lbs. of Nitrate of Soda used at planting time will add 100 lbs. or more to-

Apples 3

Practically all the Experiment Stations

in the apple districts now recommend Nitrate of Soda as necessary and are recommending its use in the spring before blossom time.
This applies equally well to Peaches, Pears, Cherries and other fruits.

Why not try it on your crops?

My Free BULLETIN SERVICE, covering the use of Nitrate of Soda on all kinds of crops, is issued for your information and explains how to use it, where to use it, when to use it. If you want it send me your address, name the crops you grow and to identify this advertisement add the number 1532

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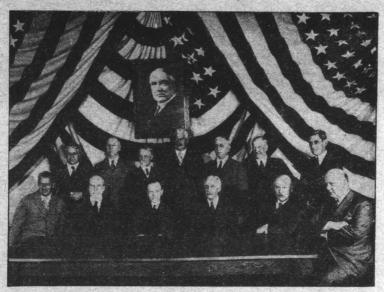
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WORLD EVENTS IN PICTURES



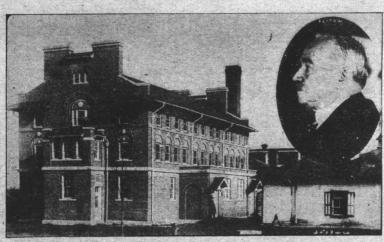
Lack of arms did not keep Martha Hale, of Berkeley, California, from an education.



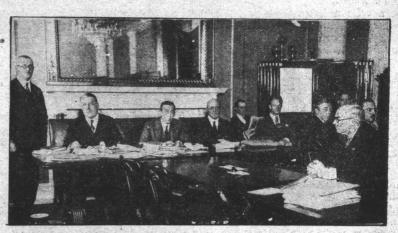
President Coolidge attended the first meeting of the Harding Memorial Association, at which plans were perfected for the National Memorial to the late president.



The first photo of "the first lady of the land" to be taken in the White House.



Milton S. Hershey, multi-millionaire chocolate manufacturer, and pioneer in giving stock bonus to employes, has placed his entire wealth, conservatively estimated at \$60,000,000, in trust for the Hershey Industrial School, which he founded in 1909. Next to Girard College, this will be America's richest school of its kind.



A Senate committee is investigating the affairs of the U.S. Veterans' Bureau in Washington. At the right, Charles B. Forbes is testifying vigorously in his own behalf, and at the left Major-General John F. O'Ryan, of New York, counsel for the investigating committee, whom Colonel Forbes has charged with having withheld testimony favorable to Forbes.



Acting on the theory that a hot-house should be near the sun, this enterprising florist built one on top of a three-story building.



W. A. Layman gets credit for an invention saving \$100,000,000 a year in the electrical industry.



Ivy Cummings, English auto racer, won three races, the half-mile, the kilometer, and the one-mile dash in one day.



This crowd honored Emilio Aguinaldo, former leader of Filipino insurrections, on his first extended trip through the islands since he took the oath of allegiance to the United States.



In the Yankee Stadium in New York, the United States Marine football team met this group of 100 per cent Americans, members of the 'Varsity Eleven from Haskell Indian School.

THE girl, apparently without a thought of the air of proprietorship in the man's tone, rose, only to face Ba'tiste. The Canadian glowered at her.

"And are you chattel?" he stormed. "Do you stand in the cup of his hand that he shall tell you when to rise and when to sit, when to walk and where

She turned.

"You were abrupt, Fred. I'm glad Ba'tiste reminded me. Personally, I don't see why I should have been drawn into this at all, or why I should be made the butt of a quarrel over some one I never saw before."

"I'm sorry-terribly sorry." was speaking earnestly and holding forth his hand. "I shouldn't have answered you that way-I'm-

"We'll forget it all." A flashing smile had crossed the girl's lips. "Fred never knows how to take Ba'tiste. They're always quarreling this way. The only trouble is that Fred—" and she turned to face him piquantly-"always takes in the whole world when he gets mad. And that includes me, I think," and the little nose took a more upward turn than ever, "that Ba'tiste is entirely right, Fred. You talked to me as though I were a sack of potatoes. I won't go with you, and I won't see you until you can apologize."

"There's nothing to apologize for!" Thayer jammed on his hat and stamped angrily out the door. daine watched him with laughing eyes.

"He'll write me a letter tonight," came quietly. Then, "Lost Wing!"

"Ugh!" It was a grunt from out-

"I just wanted to be sure you were there. Call me when Mr. Thayer has passed the ridge."

"Ugh!"

Medaine turned again to Ba'tiste, a childish appearance of confidence in her eyes, her hand lingering on the chair by the bed.

"Were you really fooling, Ba'tisteor shall we continue?'

"Perhaps-" the twinkle still shone in the old man's eyes-"but not now. Perhaps-sometime. So mebbe sometime you-"

"Wah—hah—hai-i-e-e-e!" The Sioux had called from without.

"When you need me, Ba'tiste," she answered, with a smile that took in also the eager face on the bed, "I'll be glad to help you. Good-by."

That too included Barry, and he answered it with alacrity. Then for a moment after she had gone, he lay scowling at Ba'tiste, who once more, in a weakened state of merriment, had reeled to the wall, followed as usual by his dog, and leaned there, hugging his sides. Barry growled:

"You're a fine doctor! Just when you had me cured, you quit! I'd forgotten I even had a broken arm."

"So?" Ba'tiste straightened. "You like here, eh? You like the petite Medaine?"

"How can I help it?"

"Bon! Good! I like you to like Medaine. You no like Thayer?"

"Less every minute."

The White Desert

and the second and th

By Courtney Ryley Cooper

take Pierre's place with Medaine. And Pierre, he was strong and tall and straight. Pierre, he could smile-bon! Like you can smile. You look like my Pierre!" came frankly.

"Thanks, Ba'tiste." Barry said it in wholehearted manner. "You don't know how grateful I am for a little true friendliness."

"Grateful? Peuff! You? Bah, you shall go back, and they will ask who helped you when you were hurt, and you-you will not even remember what is the name."

"Hardly that." Barry pulled thoughtfully at the covers. "In the first place, I'm not going back, and in the second, I haven't enough true friends to forget so easily. I-I-" Then his jaw sheer determination, Barry forced a smile and pulled himself back to at least a semblance of composure.

"Maybe you know the reason already—through Thayer. But if you don't-Ba'tiste, how much of it do you mean when you say you are a man's friend?"

"Ba'teese may joke," came quietly, "but Ba'teese no lie. You look like my Pierre-you help where it has been lonesome. You are my frien'.'

"Then I know you are not going to ask me for something that hurts in telling. And at least, I can give you my word of honor that it isn't because of my conscience!"

Ba'tiste was silent after that, walking slowly about the room, shaggy dropped and he lay staring ahead, out head bent, hands clasped behind his

had looked as a companion, and a chum for whom he had searched in every battle-scarred area of stricken nation, only to find him-too late. And with this viewpoint, there was no shamming about the old man's expressions of friendship. More, he took Barry's admission of a cloud in the past as a father would take it from a son; he paced the floor minute after minute, head bowed, gray eyes half closed, only to turn at last with an expression which told Barry Houston that a friend was his for weal or woe,

for fair weather or foul, good or evil. "Eet is enough!" came abruptly. "There is something you do not want to tell. I like you-I not ask. You look like my Pierre-who could do no wrong. So! Bon-god! Ba'teese is your frien'. You have trouble? Ba'teese

"I've had plenty of that, in the last two years," came quietly. "I think I've got plenty ahead of me. What do you know about Thayer?"

"He no good."

"Why?"

"Ba'teese don' know. On'y he have narrow eyes too close together. He have a quirk to his mouth Ba'teese no like. He have habit nev' talkin' about himself-he ask you question an' tell you nothing. He have hatchet-face: Ba-teese no like a man with a hatchetface. Beside, he make love to Medaine.'

Barry laughed.

"Evidently that's a sore spot with you, Ba'tiste."

"No. Ba'teese no care. But if my Pierre had live, he would have make love to her. She would have marry him. And to have M'sieu Thayer take his place? No! Mebbe-" he said it hopefully, "mebbe you like Medaine,

"I do! She is pretty, Ba'tiste." "Mebbe you make love?"

But the man on the bed shook his head.

When I Was Young And Gay. By Al. Rice

The time it nearer waxes When I must pay my taxes, Or else, with battle-axes,

They'll take my home away? But I don't have to own it; I might have gone and blown it, Or, with my wild oats sown it, When I was young and gay.

I own a home, however, And am considered clever By those who strive-endeavor-To spend their weekly pay. But I don't have to hold it; I might have gone and sold it. And with the dice-box rolled it

When I was young and gay.

The taxes make me shiver, Live over-speeded flivver; I'm troubled with my liver As nearer comes the day.

But it don't have to bore me; For men have gone before me Who spent a home and more, see! When they were young and gay.

I'll cease, while weeping sadly, To pull my fore-top madly; For lots of men would gladly The taxes for me pay. And, like the spotted gopher Disporting in the clover, I'd live the days all over When I was young and gay.

to the shadows beneath the pines and the stalwart cross which kept watch

"You act funny again. You act like you act when I talk about my Julienne. Why you do eet?"

Barry Houston did not answer at once. Old scenes were flooding through his brain, old agonies that reflected themselves upon his features, old sorrows, old horrors. His eyes grew cold and lifeless, his hands white and drawn, his features haggard. The chuckle left the lips of Ba'tiste Renaud. He moved swiftly, almost sinuously to the bed, and gripped the younger man by his uninjured arm. His eyes came close to Barry Houston, his voice was sharp, tense, commanding.

"You! Why you act like that when I talk about murder? Why you get pale, huh? Why you get pale?"

CHAPTER V.

THE gaze of Ba'tiste Renaud was strained as he asked the question, "Bon! I no like heem. He try to his manner tense, excited. Through

back, studious, as though striving to fathom what had been on the man's mind. As for Barry, he stared disconsolately at vacancy, living again a thing which he had striven to forget. It had been forced upon him, this partial admission of a cloud in the past; the geniality, the utter honesty, the friendliness of the old French-Canadian, the evident dislike for a man whom he, Barry, also thoroughly distrusted, had lowered the younger man's guard. The tragic story of Pierre and Julienne had further the merest chance acquaintance into what seemed the beginning, at least, of closest friendship. Houston had known Ba'tiste for only a matter of a few hours-yet it seemed months since he first had looked upon the funny little blue cap and screaming red shirt of the Canadian; and it was evident that Renaud had felt the same reaction. Barry Houston, to this great, lonely man of the hills, looked like a son who was gone, a son who had grown tall and straight and good to look upon, a son upon whom the old man

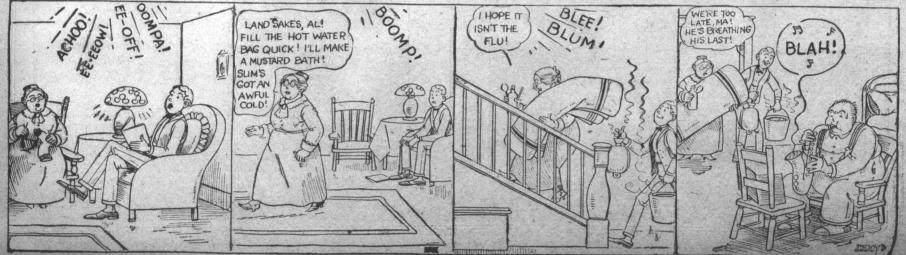
I CAN'T make love to anybody, Ba'tiste. Not until I've—I've found something I'm looking for. I'm afraid that's a long way off. I haven't the privileges of most young fellows. I'm a little-what would you call ithampered by circumstance. I've-besides, if I ever do marry, it won't be for love. There's a girl back east who says she cares for me, and who simply has taken it for granted that I think the same way about her. She stood by me-in some trouble. Out of every one, she didn't believe what they said about me. That means a lot. Some way, she isn't my kind; she just doesn't awaken affection on my part, and I spend most of my time calling myself a cad over it. But she stood by me-and-I guess that's all that's necessary, after all. When I've fulfilled my contract with myself-if I ever do-I'll do the square thing and ask her to marry me.'

Ba'tiste scowled.

"You dam' fool," he said. "Buy 'em present. Thank 'em, merci beaucoup. But don' marry 'em unless you love 'em. Ba'teese, he know. Ba'teese, he (Continued on page 599).

AL ACRES-Mother Acres Says She Hopes It Isn't Catching

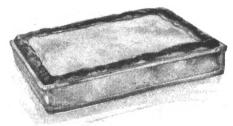
By. Frank R. Leet



EAT MORE WHEAT



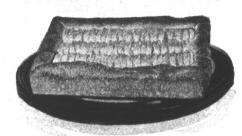
FIVE DELICIOUS DESSERTS FROM THE SAME DOUGH



CHEESE CAKE

Turn dough on board, roll half an inch thick, Line a well greased baking tin with the dough, prick well with a fork all over, allow the dough to rise 15 minutes and fill with the following mixture

½ lb. cheese; 3 eggs; ¼ cup sugar; 2 cups milk; 1 teaspoonful vanilla flavoring. Rub the cheese and yolks of eggs together until smooth, dissolve sugar in milk, beat the whites of eggs to a froth and add to the cheese and yolks, then add the milk and sugar. Fill baking sheet and sprinkle with a little cinnamon. Bake slowly. (This recipe makes two cheese cakes.)



APPLE CAKE

Turn dough on bread board, roll half an inch thick. Place in two well greased, shallow pans, Brush with butter, sprinkle with sugar apples in eighths and press into dough, sharp edge downward. Sprinkle with cinnamon. Cover and let rise about one half hour Bake twenty minutes. Keep covered with pan for first ten minutes in order that the apples may be thoroughly cooked. All kinds of fruit cake can be made using seasonable fruit.

Our Home Economics Department was established to help you teach your family to eat more wheat.

There are hundreds of ways to turn wheat into de-licious, easily made dishes. You can make Apple Cake, Cheese Cake, Vanilla Crescent, Butterscotch Bread and Filled Doughnuts all from one dough and each will look and taste different.

Try some of them next baking day.

We guarantee your success provided you use the recipe and methods given here and Gold Medal Flour.

If you want other recipes or culinary suggestions write our Educational Department, Minneapolis, Minn.

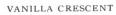
RECIPE FOR DOUGH

4½ cups sifted Gold Medal Flour cup milk, scalded and cooled 1/2 cup sugar 1/4 teaspoon 1/4 teaspoon salt

2 cakes yeast 1/4 cup butter 2 eggs

Method: Crumble yeast into a bowl, slowly add the milk and stir to dissolve the yeast. Add the sugar, beaten eggs, salt and flour, mix, add the melted butter and mix very thoroughly. Turn out on floured board, knead into a smooth dough. Place in well-greased bowl. Cover and set aside to rise—let double in bulk, about two hours. Knead down and let rise 45 minutes.

Note: If dry yeast is used make one cake into a sponge the night before, using all the liquid and one half the amount of flour given in above list of ingredients. Then add the rest of the ingredients in the morning and mix to a soft dough.



VANILLA CRESCENT

Roll out dough to ½ inch in thickness, cut into triangular pieces, brush over with butter, sprinkle with sugar and roll up into crescents, so that the outer end is in the middle of the length and on the outside of the roll. Lay in crescent shape on well greased baking sheets; allow to rise until double original size. brush over with egg and bake in moderately hot oven. (375 degrees). After baking, frost with powdered sugar icing. In making icing rub powdered sugar free of all lumps and add slowly just enough liquid to make moderately thick paste. (Water will make a more transparent frosting than milk). Add halved blanched almonds before frosting hardens.

WASHBURN-CROSBY COMPANY GENERAL OFFICES MINNEAPOLIS, MINNESOTA



FILLED DOUGHNUTS

Turn dough on floured bread board and roll out in a rectangular shape 1/4 inch thick. Brush dough with water, drop 1½ teaspoons of prune filling on half of the dough three or four inches apart. Fold the second half over the first. Cut out with a round cookie cutter and let rise until light or double in bulk. Fry in deep fat until brown. Drain on unglazed paper and roll in a mixture of powdered sugar and cinnamon. Prune Filling: Soak ½ pound of prunes for several hours, or until soft. Place over flame and bring to a boil. Remove the stones while hot. Run through a meat chopper. Sweeten to taste and flavor with rind of one or



BUTTERSCOTCH BREAD

Rollout dough to fit in square tin one half inch thick. Cover, let rise. Brush over with melted butter and at two inch intervals make parallel rows of three-fourths inch depressions, using forefinger. In depressions thus made put a bit of butter and fill with brown sugar. Sprinkle with two tablespoons brown sugar mixed with one teaspoon cinnamon and bake in a moderate oven thirty-five minutes.

GOLD MEDAL FLOUR WHY NOT NOW



Work in comfort - Keep your feet dry - Get longer servicewith -HOOD footwear

THERE is the meat of the Hood Story told in ten words—work I in comfort, keep your feet dry, get longer service.

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Leaky boots are frequently caused by exposure to the sun and air. While no boot can stand undue exposure, the HOOD Process so guards against this danger that Hoop Boots and Overshoes remain exceptionally free from cracks and leaks.

Hood soles of tire-tread stock are built for long wear under all conditions.

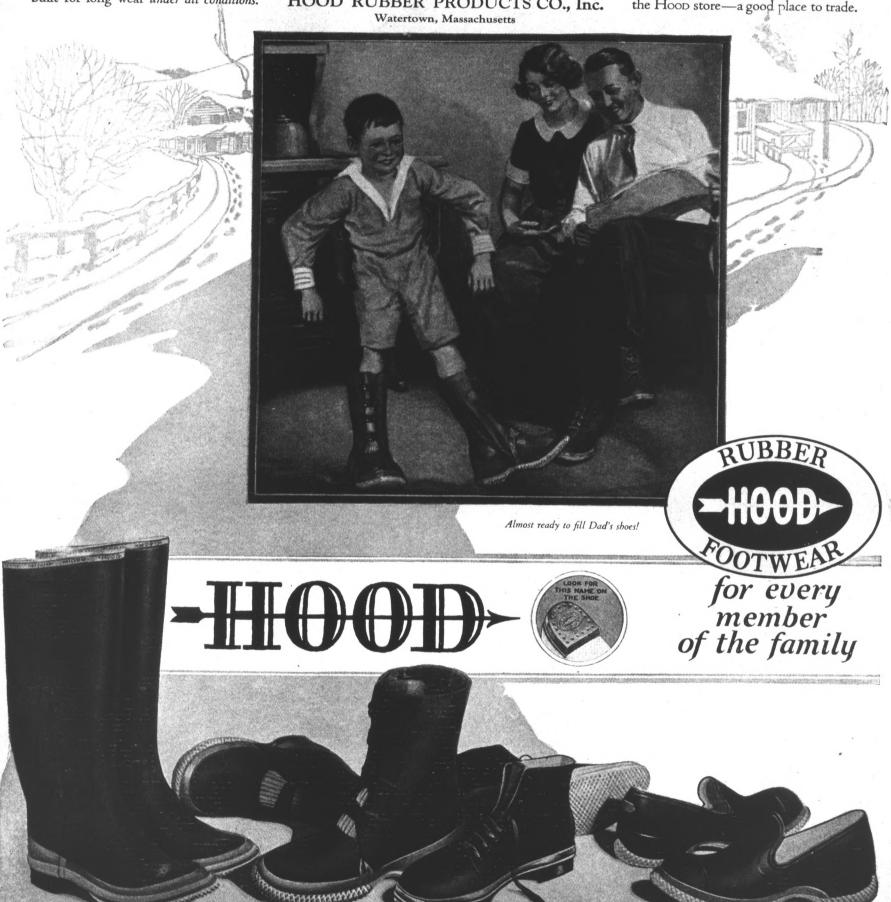
If you are not familiar with the latest developments in rubber footwear, it will pay to step into the store and examine a Hood Boot, or a HOOD Kattle King, or a pair of White Rock Rubbers. Find out how Hoods are serving other men in your locality.

You will be interested in the Kattle King and Wurkshu combination. The Wurkshu is a strong, durable canvas shoe, that does not bind or cramp the foot. Men are wearing them under the Kattle King, a fleece-lined, all-rubber gaiter. At night the Kattle Kings are quickly and easily cleaned, and there is no need to change the Wurkshuthey are as comfortable as slippers.

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HOOD RUBBER PRODUCTS CO., Inc.

Look for the Oval Sign. It identifies the Hood store—a good place to trade.



The Church Reaches Out

Our Weekly Sermon-By N. A. McCune

man. We think of the church during the first two or three centuries as composed of people who were peculiarly holy people, who found it easy to be good, and difficult to be bad. In other words, they were a kind of plaster of Paris saints, who lived in an unreal world. But on second thought, we know better than this. They were real folks, just like the people who live in Detroit or Hastings or Ontonagon county. They found it terribly hard to be good, some of them, and some never did become very good.

Read First and Second Corinthians, to get a picture of conditions in the church of those days. It gives one an

idea of what Paul had to contend with. There is a horrible case of immorality mentioned in one chapter; there is the sordid picture of people who make a picnic out

of the holy communion, and others divide up into factions, some claiming to be followers of one man, and others prefer another. After one has read such a narrative as this, he thinks more of the community where he lives. If Paul could build up strong churches out of such material, what is not possible in Michigan towns and villages?

THE disciples seemed to prefer remaining in Jerusalem, after the ascension of Christ, but the martyrdom of Stephen compelled them to scatter and carry the message elsewhere. They became missionaries, not perhaps from choice, but from necessity. They went about preaching the "word." The word was the entire message they had received, of the teaching, the death and resurrection of their

One of the first evangelistic adventures was that of Philip, in the city of Samaria. He made a stir. The meetings were crowded. Whether a collection was taken up for the preacher, we do not know, but if there had been, the collection plates would have been Listen: "And the crowds attended like one man to what was said by Philip, listening to him and watching the miracles he performed. For unclean spirits came screaming and shrieking out of many who had been possessed, and many paralytics and lame people were healed. So there was great rejoicing in that town."

It is a beautiful sight to see a whole town turning to God. Something like this took place in Ipswich, England, a year or two ago. All classes of people joined in the meetings. The moving picture houses displayed announcements on the screen like this: "Ipswich is moving toward God; have you started yet?" On the last day a united service was held in front of the town hall, where the mayor and city council, the representative citizens of the city, the labor leaders, and the officials of all the churches, both Protestant and Roman Catholic, met together, and the bishop solemly claimed the town for God and offered its corporate life "to the joyous active service of Jesus Christ."

IN Samaria occurred the brush with Simon, the Sorcerer, was not the pressed with the power of the Christian leaders, and himself became a convert. But it was soon evident that he was not sincere. What he wanted was not the inner cleansing of forgiveness, but the power over people which Philip and the others possessed. Finally, he offered to buy this of them, as so much. He got short shrift from Peter and the others. "Death to you

HE early church was very hu- and your money, for dreaming you could buy the gift of God! You come in for no share or lot in this religion. Your heart is all wrong in the sight of God. So repent of this wickedness of yours, and ask God if you cannot be forgiven for your heart's purpose. For I see you are a bitter poison and a pack of evil."

> Simon, the Sorcerer, he was imonly one who has tried to make religion profitable by joining the church. The time was, when a man could not take office in England, until he had been to the state church and received the communion. But on the other hand, using religion for business or politic reasons is not nearly as common as some people would have us believe.

I have been in the church game for fifteen years, and I have seen some of this kind of thing, but not a great real. The average man and woman who unites with the church is sincere and wants to do right. He may be ignorant of much, and he may be weak, but he is not deliberately insincere. Weakness should never be confounded with insincerity. Some very devout people are guilty of practices which cannot be defended from the New Testament standpoint, but they are unconscious of it.

One of the events of this week's lesson is the conversion of Saul. The wonder of this has never been surpassed in Christian history, and yet there have been many other conversions as sudden and complete as his. The fact of conversion must never be obscured in the church. We know that there is such an experience as conversion. Such books as "Twice Born Men," by Harold Begbie, "Broken Earthenware," and "The Common Man and the Extraordinary Thing," by the same author, are monuments that conversion is as possible and as wonderful today as it was in the days of the early church. Any of the above books are worth reading, and indeed they are nothing short of fascinating.

THE picture of Philip and the Ethiopian eunuch is one on which we may well linger. The eunuch was a negro of education and responsibility. He was, in other words, the treasurer of the queen of Ethiapia, now called Nubia and Abyssinia. It is south of Egypt. The manner in which the Spirit led Philip on his errand always challenges attention. He went, as he believed, on the command of the Holy Spirit. We may think of this, not as if he heard an audible voice, but the 'still small voice" within.

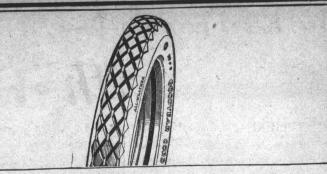
He went. And he had not proceeded many miles until he met the man whom he led to Christ. The way was all prepared. The treasurer was familiar with the Old Testament (the only Bible of that day), and in fact, he was reading the fifty-third of Isaiah when Philip met him. Thus was the trail all blazed for the eager and expectant Philip. The stranger asks why he may not be baptized, and is told that if he believes in Christ he may. Baptism followed on the spot.

If the church had always been as simple as that, in its requirements for membership, many unhappy and tragic chapters would never have been written. Who knows the influence that this royal treasurer had, when he arrived at home.

SUNDAY SCHOOL LESSON FOR DECEMBER 9.

SUBJECT:—The outreach of the early church. Ac. 8:1 to 15:35.

GOLDEN TEXT:-Ye shall be my wit nesses in Jerusalem, and in all Judea and Samaria and unto the uttermost part of the earth, Acts



You Can Always Rely on This Famous Tread



Whether you are in a mile-long jam on a slippery street, or threading a mile-high road through mountain passes, you ride with more confidence and safety if you ride on the Goodyear All-Weather Tread.,

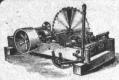
This famous tread has a slipless grip for climbing —and a non-skid power for holding back.

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Agood old Friend

Remember the good oldfashioned mustard plaster Grandma used to pin around your neck when you had a cold or a sore throat?

It did the work, but my how it burned and blistered!

Musterole breaks up colds in a hurry, but it does its work more gently—without the blister. Rubbed over the throat or chest, it penetrates the skin with a tingling warmth that brings relief at once.

Made from pure oil of mustard, it is a clean, white ointment good for all the little household ills.

Keep the little white jar of Musterole on your bathroom shelf and bring it out at the first sign of tonsillitis, croup, neuritis, rheumatism or a cold.

To Mothers: Musterole is now made in milder form for babies and small children. Ask for Children's Musterole. 35c and 65c jars and tubes; hospital size, \$3. The Musterole Co., Cleveland, Ohio



BETTER THAN A MUSTARD PLASTER



Children's colds are decidedly more dangerous than those of adults and, until Muco Salve was discovered, probably more difficult to treat because the child's stomach so often rebels against strong medicines.

medicines.

Muco Salve is applied externally and the treatment is so pleasant the child immediately feels better. Apply the salve in each nostril, rub on throat and chest then cover chest with warm flannel. Keep Muco Salve in the house always.





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W. W. Weaver, Reading, Mich.

Woman's Interests



Make Holiday Fruit Cake Early

Christmas Deserts Need Not Be Expensive When These Recipes Are Followea



the "master of cuisine" to be thinking of Christmas cakes and plum puddings. To paraphrase the query, 'What is home without a mother?" we

might say, "What is Christmas with a fruit cake?"

To be at its best, the Christmas fruit cake must be made a few weeks before the Yuletide day, that it may have time to ripen and be fully flavored. The idea is abroad that to be good a fruit cake must be expensive.

Of course, one may add as many of the good things as one wishes, but these inexpensive, yet palate-tickling recipes will appeal to the housewife who desires to economize.

If you have a college friend, why not send them a Christmas fruit cake for one of their "spreads?" Experience tells me that they are very much appreciated.

Dried Apple Cake.

2 tsp. cream of tartar 1 tsp. cloves, cinnamon and nutmeg 2½ cups flour 1½ cups raisins 1½ cups currants ½ cup nutmeats cups dried apples cup molasses cup brown sugar 2 eggs
1 cup butter
½ eup sweet milk
1 tsp. soda

Sift dry ingredients together and put raisins and currants in last. Use any soft white frosting and decorate with almonds and stars cut from candied citron or orange peel.

	oano.	
1 cup brown sugar	1 cup	currants
1 cup sour cream	1 cup	chopped nut
1 egg, well beaten	meats	
½ cup molasses		cinnamon, *
1 tsp. soda	cloves	
½ tsp. salt	3 cups	flour
1 cup raisins		

Dissolve the soda in one tablespoonful of warm water. Do not add the fruit and nut meats until last. Bake in a moderate oven.

Christmas Plum Pudding.

1 cup chopped suet 2 cups bread crumbs 1/2 cup citron 1 cup raisins 1 cup currants 1 pint flour 4 eggs
1 cup sugar
1 tsp. salt
1 tsp cloves and cinnamon, nutmeg
1 cup milk

Mix the fruit with a little flour. Put well-beaten eggs, sugar, salt, milk and spices in a bowl and when thoroughly mixed add fruit, bread crumbs and suet. Lastly, add a teaspoon of soda dissolved in warm water, and the rest of the flour. Mix thoroughly and boil four hours.

2 tb. sugar 1 cup water Cook until thick and flavor with nutmeg.

If you are of the opinion that a plum pudding is too heavy a dessert after the Christmas dinner, this pudding may suit your taste.

Princess Plum Pudding.

1 cup milk
14 cup cold water
1 cup hot water
2 tb. gelatin 1/4 cup candied citron 1/2 cup nut meats 1 cup raisins

Place the grated chocolate in a sauce pan and pour over the hot water and stir until melted. Dissolve the gelatin water and stir into t water. Add sugar, remove from the fire and add milk, raisins, citron and nutmeats. Stir together and add salt and vanilla. Beat the cream until stiff and stir into the mixture. Pour into molds lined with candied cranberries. When firm turn out and garnish with holly.—Martha Cole.

VEGETABLES FOR THE BABY.

JEGETABLE pulp or vegetable soup should be given to all children once a day from six months of age throughout childhood," declared Dr. economics department of the University of Wisconsin, in a recent interview. "This mixed diet is necessary because vegetables furnish material for growth as well as more minerals for bones, teeth, and blood, and more vitamines to stimulate growth."

All of the leaf or root vegetables except the potato may be fed to infants, according to Dr. Mendenhall. Potatoes are excellent for the older child, but not for the baby. Bread or rice should be used instead of potatoes for the young child, as it is more easily digested."

Minerals and vitamines will cook out into the water. If this is strained it may be fed alone to babies under six months. For older children the vegetables should be put through a fine wire sieve, and the pulp and liquid fed together or vegetable soup prepared. This soup should form the chief part of the mid-day meal during early childhood.

"When the vegetables as prepared above are nearly done, one to two tablespoons of rice which has been soaked in warm water may be added," says Dr. Mendenhall. "Cook until rice is soft, about fifteen minutes."

CHRISTMAS GIFTS YOU CAN MAKE.

THE Christmas gift that has em-bodied in it that touch of handwork is sure to be received with hearty appreciation of the time spent in the making. In hand-made and home-constructed gifts, there is a bit of individuality and originality that is difficult to duplicate in shop gifts.

The laundry bag illustrated here will be found to be practical and always ready to receive soiled clothing. For its construction you will need a small

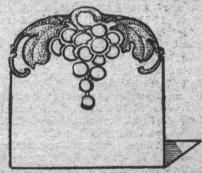
T is now time for Dorothy Reed Mendenhall, of the home coat hanger and a yard or a yard and a quarter of cretonne, crepe or plain Indianhead.

The hanger should be wound with

the material like the bag and the opening bound in contrasting material. If you use one color cloth, a design may be appliqued similar to the one illustrated. When made of cretonne the bag is very attractive, but it should be lined

with a plain color. If this bag is made smaller, it is handy for a glove bag or

work bag. The design at the right, when enameled on a set of book-ends would gladden the heart of the miss who has a love of books. Plain sheets of tin may



be formed into this fashion. They will need to be about five inches wide and seven inches high when finished. First enamel them with a plain color, preferably black, then pain the design on with enamel in appropriate colors. If you are not an artist, select a stamped pattern to be painted, and after placing, prick an outline of the design on the enamel with a pin. This can be followed readily by the inexperienced.

Recipes for Canning Meat

Roast Meat, Beef, Pork, Veal or Mutton.

Choose the pieces of meat used for roasting and wipe with a damp cloth. It is not well to soak meat in water before canning. In a large frying pan try out a little suet and with this sear the meat quickly on all sides. Cut irto suitable pieces for packing, and fill sterilized jars to within one-half inch of the top. Add one teaspoonful of salt to the quart, and fill the jar with a gravy made by adding hot water to the tried-out suet. Partially seal as for cold-pack process, and process three hours. Finish sealing and store in a dry, cool place.

Soup Stock.

All bones, either raw or cut from steaks, roasts or other cooked meat, may be used for soup stock. Marrow bone should be sawed into pieces. Meat scraps not otherwise used may be added and the whole covered with cold water. Bring to a boil and simmer until the bones are thoroughly cooked. The meat stock may then be strained. If not condensed enough to jelly when cold, cook for one hour longer. Fill sterilized jars with this stock and partially seal. Process for two hours. Finish sealing and store in a dry cool place. dry, cool place.

Meat Loaf.

Cook the meat scraps and tough pieces of meat and grind through the food grinder. To each five pounds of chopped meat, add:

2 tb. finely chopped onion 2 eggs heater

5 tsp. salt
2 eggs beaten
2 tsp. pepper
2 cups stock
½ tsp. allspice
Mix thoroughly and pack into sterilized jars. Partially seal and process
for three hours. Finish sealing and store in a dry, cool place.

Spare Ribs. Roast the ribs in the usual way until nicely browned. With a sharp knife remove the rib bones and pack into sterilized jars. Add the hot gravy made from the contents of the roasting pan. Partially seal, and process for three 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 good sauerkraut. Seal and process as with the other method.

Beef Steak.

The sirloin of beef is cut into suitable pieces for steak. Sear the sliced steak quickly on both sides in a hot frying pan and season with salt and pepper. Fill sterilized cans to within one-half inch of the top with hot gravy made from the pan grease and hot water. Partially seal and process for three hours. Finish sealing and store in a dry, cool place.

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, Michigan.



Use this department to help solve your household problems. Address your letters to Martha Cole, Michi-gan Farmer, Detroit, Mich.

TOMATO PRESERVES.

Please give me a recipe for tomato preserves which calls for ginger root.

—Mrs. M. M.

This recipe comes to me thoroughly tested.

Tomato Preserves.

2 lemons

Scald the tomatoes and slip off the skins. Place the tomatoes in a crock or enamel bowl and add the sugar. Let them stand overnight. Drain off the juice and boil it rapidly until it threads, with two teaspoons of ground ginger root. Add the tomatoes and lemons sliced thin, and cook the preserves until they are thick and clear They should be a rich red color.

WHEN TO SLIP GERANIUMS.

Will some kind friend tell me when to slip geraniums to have them blossom the last of May? We are far from and farmers are very busy at

We have that time of year. We have many graves to decorate and the above information would be appreciated.—In-

If geraniums are to be in flower the last of May, it is necessary to have a place where geraniums can be grown during the winter and spring months. To prepare for flowering time in May, cuttings are made late in September, placed in clean sand in a propagating bench in a temperature of about fiftyfive to sixty degrees, and they are allowed to remain there until the month of January, when they are placed in two and one-half-inch pots, allowing them to remain in these pots until they become pot-bound, which will be about the last of March, or about Easter time, when extra room is supplied after the Easter season. These young plants then are shifted from two-and-one-half-inch pots into four-inch pots, when they will be in nice flowering condition about the last of May. This is usually the commercial way of growing geraniums. Without the convenience of a greenhouse, the only way to do is to imitate as closely as possible the greenhouse practices.-Gunson.



Doings In Woodland

A Little Boy Saves Bruin

BRUIN groaned in the tight grasp have the muzzle and rope right here."

The man thought a few minutes, ached and pained! Twist and squirm as he might, he could not get loose. No matter in what position he stood, the pain was no easier.

To Bruin, it seemed a long time. Yes, a very long time, since the little stranger Squirrel had started with his message to Rolly.

He knew Rolly Rabbit would bring help as soon as possible. But he wished he would hurry, or-

No sooner had he thought this when he turned to see a man coming, winding his way among the trees.

His heart went thump. Forgetting



"Don't Shoot Him, Father."

the trap, he started to run. But he could not get away. The sharp teeth of the trap cut deeper into his flesh.

The man came running toward him. "Ah, Ha. At last I have you, you big rascal. What a nice fur coat you will make me, Mr. Bear," he said. "Now to get you home."

Bruin could not understand what the man meant by these straige noises, but his tone made him more afraid.

Taking some shells from his pocket, the man put them in his bang, bang gun. Bruin had never seen a gun like this before, but he remembered about what happened to Mrs. Rolly Rabbit. His knees trembled and he was weak. Just as the man raised his bang.

bang gun to shoot straight at Bruin, a little boy came running un behind him

small and cute. Please can't I take him home?" asked the little boy. "I

The man thought a few minutes, then answered, "Perhaps he is too small for a coat anyway. Yes, we will take him home, son, and you may have him for a pet."

"Just see how frightened he is, poor little fellow," said the boy.

He talked to Bruin in gentle soothing words, but it was with some difficulty that the man and the boy finally got the muzzle fastened on him.

Bruin was very doubtful as to just what they were going to do with him, and he cuffed on every side with his paw and tried hard to get away. The muzzle over his head was very uncomfortable, but try as hard as he might, he could not get it off.

At last he became too tired to resist any longer. And after weary miles of walking, Bruin found himself fastened to a tree. Nearby was a big house, bigger than Bruin had ever seen before in his life. The man and the boy left him alone and went into this big

NOTE FROM AUNT MARTHA.

Dear Little Folks:

The postman brought some stories of Thanksgiving that told me we had some very good little story writers among our readers. I am sorry they came too late to be printed.

Christmas time is almost here and each of you have planned what you wish old Santa to leave in your stocking on Christmas morning. Write and tell us the one thing you want most for Christmas, and why. Let's have our Christmas stories early.

Only a few got the answer to the riddle that Raymond Huntwork sent, one-third of the twelve divided by onefifth of seven and you will decide that the answer is eleven. How to get the answer: Use one-third of the word twelve and choose the letters LV, which in Roman numerals means fifty-five. Use one-fifth of letters in "Don't shoot him, father. He is so the word seven, or letter V, which means five. 55 divided by 5 is 11.

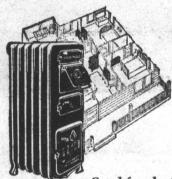
Sincerely, AUNT MARTHA.

Arcola made all sides warm sides

"When we had the oldfashioned heating plant, we always used to speak of the rooms as being on the warm side or the cold side of the house. When the wind was a certain way, the warm side was too hot and the rest of the house was still cold.

"Since we have had ARCOLA in the kitchen and radiators in all the rooms, the whole house is warm all over all the time.

"And we save half on the coal bill."



ARCOLA is a small boiler designed (both for hot-water and steam) to furnish radiator warmth to small houses, apartments, stores, offices, shops, schools and churches. No running water is required.

Set in the parlor, living room, dining room, kitchen or basement, and connected with American Radiators, it warms every room evenly; also heats water for bath, laundry and kitchen. And it pays for itself in the fuel it saves.

A demonstration will cost you nothing; it may save you much. Drop in today at the store of your Heating Contractor.

Send for the free ARCOLA booklet

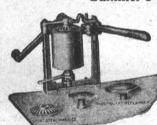
AMERICAN RADIATOR COMPANY

IDEAL Boilers and AMERICAN Radiators for every heating need

104 West 42nd Street **NEW YORK**

Dept. F-105 816 So. Michigan Ave.

MEAT And At Low Cost Next Summer's



Feed The Threshing Crew as well as your family with ready-cooked low-cos meat—also save lots of time every day in the busy summer season—by canning your meat supply now. Insure your success by doing it in Sanitary Tin Cans sealed with the

Burpee HOME Sealer

For prices and all the facts about home-canning write BURPEE CAN SEALER CO., Dept.F, 215 W.Huron St., Chicago.

You Can Have This Darling Doll She Walks, Talks, and Sleeps Will You Give Her a Home?



Will You Give Her a Home?

If you could only see her you would feel sorry for her. She sleeps all night, then when you pick her up in the morning she opens her eyes and cries out—"Mama, Mama," and is only quiet and happy when you take her by the hand and walk around with her. Yes, this Bolly (Baby Mae is her name), really Walks, Talks and Sleeps. A big chubby doll, she is almost a foot and a half tall. She comes to you fully dressed, her face washed and her hair combed, her removable patent leather shoes shining. You will love her with all your heart because she will be the best little companion you ever had.

BABY MAE WILL BE YOURS

BABY MAE WILL BE YOURS For only a very little effort on your part. Write your name and address plainly on the coupon below and mail it to the Dollies' Orphanage, 3201 Lothrop, Detroit, Michigan, and you will receive full in structions how to order her. Think how happy she will be in your home.

(Cut out coupon and mail today).

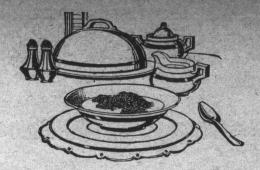
The Dollies' Orphanage 3201 Lothrop

Detroit, Michigan

Please send me full particulars how to order Baby Mae. My name and address is written below.

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V	am	e				*	4	

P. O.



The Winter Breakfast

which includes Grape-Nuts with cream or good milk, will have one dish that has both engaging flavor and true nourishment.

Grape-Nuts is more than "something good to eat." It is a building food in most digestible form; rich in proteins, carbohydrates, mineral elements and vitamin B-all vitally essential to the daily rebuilding of every part of the body.

It pays to keep oneself in the highest physical condition, for with the strength and vigor that go with health you can "do things" and be happy.

There's a way—and "There's a Reason" Grape Nuts



Grape:Nuts

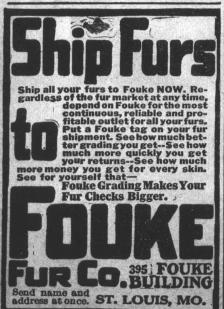
on Gallon of Gasoline Low Gear Seldom Used

SENT ON 30 DAY'S FREE TRIAL

You can drive any car in heaviest traffic without shifting gears. Starts off on high in any weather without priming or heating—no jerking or choking. No more foul spark plugs or earbon in cylinders. No leaking of gas into crank case. Try it 30 days on our guarantee of money back if not entirely satisfied. No strings to our guarantee. YOU ARE THE JUDGE. Anyone who can handle a wrench can attach it. No boring of new holes or changing of operating mechanism. Write today. AIR-FRICTION CARBURETOR CO. 598 Raymond Bldg. Dayton, Ohio, U. S. A.



TRAPPERS Send For Free ANIMAL LURES ample sent to test at our expense. Highest price aid for raw furs. Send your name in today. The L. Frank & Sons Company ZANESVILLE, OHIO.





Lake Land Fur Exchange, Salem, Mich

Write for four grade price list shipping tags, etc. Had no com-plaint from a shipper in over two years. Our treatment and prices are the cause, prices alone mean nothing.





"A Quart for a Quarter" BLACK FOX INK CO., Wrentham, Mass.

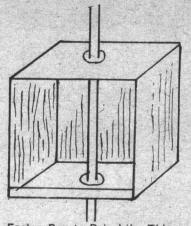
Imported Melotte



The Cornstalk Dining Hall

By Emily A. Fuller

BEFORE it is too late you should know how to make a shelter for the winter birds and also lay in a supply of food for them. A cornstalk shelter is one of the finest things you can make, either for the birds or the squirrels. Take a box about two by three feet, any box will do but that is a good size. You will also need a piece of lumber, six or seven feet long and two inches square or a small sapling from the woods will do as well. Cut a hole in the top and bottom of the box, just large enough to put in the pole, then take out one side of the box, nail a narrow strip across the front of the box so the



Fasten Box to Pole Like This.

food will not be easily brushed out on to the ground, now your box looks like the picture. If you got a sapling for your pole leave a few small branches at the top. If you use a stick, you should put two or three big nails in the top before you fasten the pole into the box. This will give a place to fasten the wire, which you will need to bind on the cornstalks.

Now you are ready for your cornstalk cover. Get Dad to give you at least two shocks of stalks and tell him to leave some ears on, for the squirrels will be glad of them when the snow flies. Sharpen the big end of the pole before you fasten it into the box, and leave about a foot below the box to go into the ground, that will make the shelter firm against the winter winds. The pole should be tall enough

to come above the cornstalks, so don't get the tallest in the field. Now set the stalks around three sides of the box and fasten securely to the pole with wire, slant the stalks so as to leave a tent-like opening over the top of the box.

This will give you two tables on which to put the food. If you are a real carpenter perhaps you will want to put a narrow board all around the top of the box, so the birds will not waste the grain. Now for the food for winter, get all the sunflower heads you can and put them in paper sacks, then hang in the attic or up in the barn where the mice can't get at them. One sunflower head put up in the cornstalks will call the first customers to your Lunch Room and when they tell others, your advertising is all done for the winter. If you live where the black alder berries grow, get some branches of these and keep them in a cool place until real stormy days come, then your birds will thank you for them. Any kind of grain will do for food, and all kinds of nuts can be cracked for them. It is best to place the cornstalk dining hall so it faces the house, then you can watch the birds as they come each day. Also, it is a good plan to have the opening toward the south. That offers more shelter when it storms.

Ask your teacher if she does not want a cornstalk house in the school yard. Each pupil could furnish something toward the food supply. The cornstalk house will be a source of interest to old and young all winter, and "a refuge in time of trouble" for all the winter birds.

CLUB MEMBER STUDENTS AT M. A. C.

FOLLOWING are the results of a survey to determine the number of former boys' and girls' club members who were enrolled as students at M. A. C. in September, 1923:

Class.	Club Members.	Enroll- ment.
Freshman Sophomore Junior		10.7% 6.8% 7.8%
Senior Entire student boo	iy 130	7.7% 8.4%

Dear Uncle Frank:

Dear Uncle Frank:

Thank you for the Merry Circle pin and membership card. I was very delighted to get them.

Although I'm sure that my letter is going into your waste basket head over heels, so might as well say, "Hello, Old Man," any room for me?"

I am an orphan, living on my uncle's farm. I have been on this farm for over ten years. I love farming and driving horses.

I trap for muskrats and skunks. I

I trap for muskrats and skunks. I think it very fine sport.

I love all out-door sports, but am not

Thore an out-tool sports, but all not very mischievous.

Thanking you again for the M. C. pin and card.—Your nephew, Albert Jackola, M. C., Lininga, Mich.

I am glad you know that one can be a real boy without being mischievous. It's fine that you like farm life so well.

Dear Uncle Frank:

I have written several times, but I guess Mr. Waste Paper Basket was quite hungry then, so they were not quite hun published.

Say, Uncle Frank, did you ever get real frightened? Well, I have, and when mother and father had gone to town. My older brother said that he could smell gunpowder. The first thing I thought of was, that some one was setting dynamite under the house,

but finally he discovered that he had held a lighted match in his hand, and that's what he smelled. My! but that was a great relief for my fright.
Well, good-night, it's my bedtime.—
Another nephew, Arnold Rueckert, Grand Ledge, Mich., R. 3.

That certainly must have been a scare. It's a good thing the anticipated blow-up did not occur.

Dear Uncle Frank:

Before Thanksgiving we had poultry-picking bees. A week before Before Thanksgiving we had poultry-picking bees. A week before Thanksgiving or Christmas, the women here go and help each other pick their ducks and geese, turkeys and chickens. The party consists generally of eight to twelve women and three or four men to do the butchering it is fun when the weather is nice and no mud. But everybody is glad when the last job is done.

At present people here have been digging potatoes, which is a very good crop. Sauerkraut is also being made by those that have cabbage. I would like to hear from girls that have canary birds.—From your niece, Ottelia Strauer, Harbor Beach, Mich.

Those bees must be a nice way to

Those bees must be a nice way to get a disagreeable job done. Do you raise canaries to sell? I wonder if many M. C. girls do?

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THE WASTEBASKET.

By Lu Eddie Blake, Mt. Pleasant.
First Prize.
Mouth wide open, calmly waiting,
All accepting nothing giving,
Brainless, speechless, moveless, nerve-

Representing nothing cheerful, Having no excuse for being, Imbecile, it sits there yawning,

Mouth wide open, stupid, silent, Silently accepting judgments, Causing many wrecked ambitions, Bitter disappointments, heartaches, Misery and black resentments, Yows for vengeance without number.

Wasted time and wasted paper, Wasted stamps and pen and pencils, To feed this legless, armless, headless, Eyeless, noseless, hairless, toeless Thing that knows less, much less, far

Than a louse which bites a chicken.

Yet it takes its daily dozen— Daily dozen? Daily thousand! Disappointed hearts of children, Sturggling for slight recognition. Making futile and impotent Beating wings of vain endeavor!

Can there nothing good be said about Can there nothing good be said about Such hideous a monster? Give it naught but condemnation? Even as the devil spurs us. To fight hard for right and honor. So this thing which blocks our efforts Stirs determination greater. To refuse to be checkmated.

Though cast down we're not defeated, Sorely puzzled, still undaunted Stirs brains to quicker action. We shall work to win our token. As a boxing partner buffets To improve the strong man's vigor, A blessing in disguise are thou Oh, misjudged and patient teacher, Oh, most noble, wise, Wastebasket!

THE W. B. PRIZE WINNERS.

O UR M. C. poets got busy and work-ed out their vengeance on their favorite subject, the wastebasket. Judging from the response, the W. B. is the villain in the Merry Circle doings. The following expressed their W. B. sentiments successfully:

Flashlights.

Eddie Blake, Mt. Pleasant, Box 112, M. 7.
Maydah A. Neddermeyer, of Fair Haven, Mich.
Fountain Pens.
Rex Ellis, Reed City, Mich.

Mary Wert, Laingsburg, R. 2, Box | Harriet Wordelman, of Centreville,

Candy.
Elsie Mae Farmer, Durand, Mich.
Maurice L. Hartung, Levering, R. 1.
Theo. Hartwick, Standish, Box 252.
Helen Shelby, Coleman, Mich.
Bethel Hallock, of Hastings, Mich.,

Ad. Reading Contest

BELIEVE you are just about ready for another ad-reading contest, therefore, this one.

Look for the answers to the following questions in the ads. of this issue. Write your answers as short as possible, and give the pages on which you found them.

For the two most correct and neat papers we will give handy tubular flashlights; for the three next best, handsome fountain pens, and for the next five, cute little boxes of candy.

All who get correct answers and are not Merry Circlers will get membership cards and buttons. All who are now Merry Circlers should not forget the M. C. after their names.

This contest closes December 13. Send your answers to Uncle Frank, Michigan Farmer, Detroit, Michigan.

What pays for itself in the

1. What pays for fisch in the fuel it saves?
2. What fertilizer was used to cause a gain of 7.47 bushels of wheat?
3. In what is there charm without harm?

4. What sends out free catalog B-8?

Who is the \$60,000 sire? What has a self-balancing

What burned and blis-

7. What burned and blistered?
8. Who has no strings to their guarantee?
9. Who has Michigan's greatest color and egg strain?
10. What makes fresh demands on the lubricating system of your automobile engine?

The White Desert

(Continued from page 592).

been in too many home where there is spite of the fact that I've gone out no love."

"True. But you don't know the story ble. I'd rather not tell you what it was. It broke my father's heart—and his confidence in me. He-he died shortly afterward."

"And you-was it your fault?"

"If you never believe anything else about me, Ba'tiste, believe this: that it wasn't. And in a way, it was proven to him, before he went. But he had been embittered then. He left a will with stipulations. I was to have the land he owned out here at Empire Lake; and the flume site leading down the right side of Hawk Creek to the mill. Some one else owns the other side of the lake and the land on the opposite bank of the stream."

'Oui. Medaine Robinette."

"Honestly? Is it hers?" "When she is twenty-one.

go on." "Father wouldn't leave me the mill. He seemed to have a notion that I'd sell it all off-and he tied everything up in a way to keep me from doing anything like that. The mill is rented father's memory. I'm going to be do everything but actually dispose of myself straight in the eye, knowing it. But on top of that comes another twist: if I haven't developed the business within five years into double what it was at the peak of its best development, back goes everything into a trust fund, out of which I am to have his eyes." a hundred dollars a month, nothing more. That's what I'm out here for, over the foot of the bed. "My Pierre Ba'tiste' to find out why, in spite of --he would talk like that. Bon! Now the fact that I've worked day and -what is it you look for?" night now for a year and a half, in

and struggled and fought for contracts, and even beaten down the barbehind it all, Ba'tiste. And I can't tell riers of dislike and distrust and susyou except this: I got in some trou- picion to get business-why I can't get it! Something or some one is blocking me, and I'm going to find out what and who it is! I think I know one man-Thayer. But there may be more. That's why I'm playing this game of lost identity. I thought I could get out here and nose around without him knowing it. When he found out at once who I was, and seemed to have had a previous tip that I was coming out here, I had to think fast and take the first scheme that popped the game long enough, it will take him off his guard and cause him to work more in the open. They may give me a chance to know where I stand. And I've got to know that, Ba'tiste. Because—" and his voice was vibrant with determination, "I don't care what happens to me personally. I don't care whether five minutes after I have made it, I lose every cent of what I have worked for. But I do care about this; I'm going to make good to my father's memory. I'm going to be able to stand before a mirror and look Witte for information.

**Jalka I RCZ V all CY STATE TO THE COUNTY TO THE COUNTY TO THE COUNTY TO THE ABILITY IN SAINT BEAD TO COUNTY. The "Valley Beautiful" in Saint Barbara County, with the delightful climate of the Southern California coast, away from the heat and while of the desert. No inflation—subdividing large Stands 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.

**Walley Beautiful" in Sainta Barbara County, with the delightful climate of the Southern California coast, away from the heat and while of the desert. No inflation—subdividing large Stands Grant—rich and the county of the desert. No inflation—subdividing large Stands Grant—rich and the county of the desert. No inflation—subdividing large Stands Grant—rich and the county of the desert. No inflation—subdividing large Stands Grant—rich and the county of the desert. No inflation—subdividing large Stands Grant—rich and the county of the desert. No inflation—subdividing large Stands Grant—rich and the county of the county of the delightful climate of the Southern California coast, away from the heat and while of the Gouldson the county of the county to me. The land is mine, and I can able to stand before a mirror and look that I bucked up against trouble, that it nearly whipped me, that it took the unfairest advantage that Fate can take of a man in allowing my father to die before I could fully right myself in

"Bon-good! Old Ba'tiste leaned

(Continued next week).



The trade-mark Grandfather knew— HE knew! When grandfather bought clothing, shoes, or rubber footwear for the family he demanded full value for every penny he invested. He worked hard for

Three generations ago, even as to-day, the Goodyear "Gold Seal" was a guide for careful buyers. Grandfather knew that this label spelled "extra quality"—quality that has never been changed. He always insisted on getting "Gold Seal" rubbers, boots, and overshoes, because he knew that only in this way could he be sure of long wear, perfect fit, and real foot-comfort.

Respect grandfather's judgment. Be guided by the name that guided him. Ask for "Gold Seal" rubber footwear by name—and insist on getting what you ask for.

Our nearest office will take pleasure in acquainting you with the "Gold Seal" dealer in your town.

Milwaukee, Wis., 380-2 E. Water St. St. Paul, Minn., 371-7 Sibley St. Kansas City, Mo., 807 Baltimore Ave.

St. Louis, Mo., 1103 Washington Ave. Portland, Ore., 61-7 Fourth Street San Francisco, Cal., 539 Mission St.

SEA BOOTS—RUBBERS—OVERSHOES

The Real Estate

RATES For Real Estate Advertising On This Page

Market Place

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

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 raliable.

90-Acre Cloverdale Farm;

90-Acre Cloverdale Farm;
10 Cattle, 2 Horses, 100 Poultry
Brood sow tractor with gang plows, drags and harrows, complete set farming implements and tools, hay, grain, fodder and straw, on state road near gone, large cities, in rich farming district, 80 acres level fertile dark loam tillage, 10 acres spring watered pasture; fruit home use, good 8-room house, painted, cellar flue well, near American neighbors, mail and telephone, hip roof basement barn 30x60, painted, standions 20 head, hay fork, new cement stay silo 10x36, granary 16x24, henhouse 12x100, cornerib and toolsided 16x30, garage, all in good condition. A genum at 80.500-82.500 cash, balance easy, Write or see Geo. Wickwire, 24 Sun Bidg., Jackson, Mich.; or MiCHIGAN FARM AGENCY, 628 Ford Bidg., Detroit.

144-Acre Michigan Farm with 325 Poultry, 28 Cattle and

Santa Ynez Valley

MASSACHUSETTS FARMS FOR SALE

All Farms within 30 miles of a large city; fine roads, exceptional transportation facilities; good markets nearby; splendid educational and social advantages for young people, farm lands \$10 to \$600 per acre; rising in value, therefore good investment; see advertisement elsewhere this publication. DR. A. W. Gilbert, Commissioner, Mass. Dept. of Agriculture, 136 State House, Boston, Mass.

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.

FOR SALE or EXCHANGE

Eight hundred eighty (880) acres of land, partly out over, in Sanborn township, Alpena County. This land is fee and, elear and is in one parcel, one-half (½) mile from the D. & M. Railroad, and on high-way 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.

118-ACRE FARM AND BIG FACTORY BLDG., ON R. R. SIDING NEAR AUTO CITY.

R. R. SIDING NEAR AUTO CITY.

ON state road, 60 acres 3 miles southwest of Lansing, \$9,000, all cleared level black loam where buyer can quadruple price, sub-dividing quarter acres, \$150 quarter. Has 7-room house, barn, 2 wells, fruits, wire-fenced, \$1,500 cash, balance 50-year mortgage, \$150 privilege more with annual interest. Ditto equipped, highly imp. 118-A on M. A. C. Int. Ry., rent or cash sale. P. O. Box 5, Lansing, Mich.

Sell your property quickly for cash, no matter where located. Particulars free. Real Estate Salesman Co., 515 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.

F OR 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.

FINE Southeast Mo. Farm 630 Acres, carrying amortization loan, sale or exchange for unincumbered. Frank Ball, Farber, Mo.

IF YOU WANT TO LIVE in California write Kings merce, Hanford, California, for free booklet.

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

W ANT TO HEAR from party having farm for sale, Give particulars and lowest price, John J. Black, Capper St., Chippiewa Falls, Wis.

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

\$2300 DOWN GETS well improved 100 acres near Moline, Price \$7,800. See Catalog. Many bargains. Fuller Land Co., Wichita, Kansas.

F ARMS WANTED—We have buyers for Michigan Farms. Give description and lowest cash price, Warren McRae Farm Agency, Logansport, Ind. Farm Wanted immediately, direct from owner. J. W. Houck, Timn, Ohio.

Wanted to hear from owner of land for sale,

Farm Wanted Near school; at spot cash price Mean business Fuller, Wichita, Ks Aditional Farm Ads. on Page 605



PAN-A-CE-A

See them get busy. It gives hens pep.

Nux Vomica is what does it—that greatest of all nerve tonics. A Pan-a-ce-a hen can't hold still. It's her good feeling that makes her hop around.

Pan-a-ce-a has Quassia in it to make hens hungry. Great combination! One makes them eat—the other helps them digest what they

No dormant egg organs when that com-bination gets to work on a hen's system. You just get eggs-eggs.

A Pan-a-ce-a hen is always a hungry hen— an industrious hen. She gets off the roost winter mornings, ready to scratch for her breakfast.

Tell your dealer how many hens you have.
There's a right-size package for every flock.
100 hens, the 12-lb. pkg.
200 hens, the 25-lb. pail
60 hens, the 5-lb. pkg.
500 hens, the 100-lb. drum
For fewer hens, there is a smaller package.

GUARANTEED

DR. HESS & CLARK

Ashland, O.



Dr.Hess Instant Louse Killer Kills Lice

Whittaker's R. I. Reds Michigan's Greatest Color and Egg Strain. Both Combs. Our cockerels will improve your ficek in color and egg production. Write for prices. Interlakes Farm, Box 39, Lawrence, Michigan

PleaseMention The Michigan Farmer When Writing to Advertiser

I set out to build

WINTER EGGS ARE PROFITABLE



MCCurdy's gable top bar Feeders and winter Fountains will produce Winter EGGS. Open construction, sanitary, economical. No waste. Feeds from both sides. 3: 6-peck. 50-inch feeding space, \$7.50. Send for catalogue of larger Feeders and winter Fountains. Freight prepaid at catalogue prices east of Mississippi River.

THE McCURDY MFG. Co., Box B, Ada, Ohio.

My Engine Does the Work of Read the Amazing Facts About This Wonderful Farm Engine

The regular power jobs on your farm probably, vary from about 1½ to 6 H. P. Yet there's no need to have two or more engines for these jobs, engines in one. You can get six engines in one. You can get six engines in one. You can get may be the little jobs, 6 H. P. for the littl

No Other Engine Like It

isfied users tellisfied users tellisfied users tellime I've succeeded. I'm proud to have this engine bear my name." There is no other farm ngine like the Edwards. It pumps, was he s, churns, A. Y. Edwards EDWARDS FARM ENGINE

what Users Say
Fred Dunderi, Strathcona, Minn, says: 'I certainly like my Edwards
Engine. Runs an 8-inch
burr mill full capacity.
Has plenty of power and
then some. It certainly
works fine. I like its varying speed and power and
tis light weight, it is soeasy to move from job to
job. Best and handiest enging I have ever seen out
to be best and handiest enging I have ever seen out
to be best and handiest enging I have ever seen out
to try the Edwards
County free than the
touldn't get hand best of
the Edwards together with
the Edwards together with
my straightforward, uncompany latins for it.

"One of my neighbors

"One of my neighbors was looking over my Ed-A. Y. Edwards EDWARDS MOTOR CO. 919 Main St., Springfield, O.

MAIL THIS COUPON NOW

EDWARDS MOTOR CO. 919 Main St., Springfield, Ohio Without cost or obligation, send me compl description of your engine, also details of your free trial offer.

Name.

Farm Poultry

TAKES MID-WEST EGG-LAYING HONORS.

INSPIRED by the plaudits of an admiring multitude of rooters, a modest Barred Rock hen belonging to L. W. Dunn, of Three Rivers, Michigan, has won the egg-laying honors of the middle west. In the quiet obscurity of a trap nest at the Michigan Agricultural College at Lansing, this energetic hen laid 284 eggs in 365 days. Her task was unromantic. She was given no cheer leaders to stimulate her efforts. But she played the game consistently, defeated all other conference entries and is now the undisputed champion of the west.

Birds of numerous other varieties contested. Eleven states were represented by 120 different pens, including Washington, Oregon and California. During the year the referees at the college witnessed some very creditable performances in the production of eggs. Several birds managed to turn out more than 200, and a few crowded the 250 mark. But the Three Rivers entrant showed far better nest generalship than her competitors. Her variety of plays was no broader but the few plays she did use were skillfully executed. And when the judges looked over the tabulations her score of 284 was far and away the best.

The champion, wearing her laurels lightly, is now staging some private performances in a coop at the rear of the home of her owner. Although she has been out of competition for several weeks she still does her daily egg. And numerous owners of slacking hens are besieging the owner for permission to turn their fowls in with the champion so they may learn and apply some of the real fine points of egg production.—Chet Shafer.

WHAT A CULLING BEE ACCOM-PLISHED.

N the vicinity of White Cloud, poultry enthusiasts got together and had a culling bee this fall. As a result, there are probably 1,345 less birds in the neighborhood. These birds came from thirty-two flocks and were the culls of the 2,400 hens examined.

The huge percentage of culls in this culling bee is due to the large number of old birds and young hens which were excessively fat because of being fed too much grains, chiefly corn. To get the best result in poultry feeding the ration should have half grain and half mash, as well as the necessary green foods.

The elimination of these 1,300 hens will not mean much decrease in the egg production in that community, as they were all "star boarders." In fact, the culling will mean a distinct saving to the community in feed and labor.

It is figured that most of the 1,300 would be inactive until some time in April and then would lay a comparatively few eggs when prices are the lowest. The cost of feeding one of these hens until that time would be about ninety cents. Therefore, the saving on the 1,345 would amount to \$1,210. This, less the cost of the culling, which was \$47.56, will mean a net saving of \$1,162.44. Besides, the farmers will have the use of the money this winter which comes from the immediate sale of the birds.

Among the many prizes at the Holland Poultry Show, to be held December 12-15, will be twenty silver cups.

County Agent Eckard, of Van Buren county, trap-nested the 500 hens in his flock during the past year. He found 165 hens in the 200-egg class, the highest producing 282 eggs.

The good cow greatly discounts the farmer's chances for loss.







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in CO

KEEP THE HENS GOING.

UST now is the time when eggs are golden. The high prices, occasioned by small supplies, brings large returns to the few poultrymen who are able to make the hens produce at this season of the year.

Good housing, of course, is highly important. Roosting in trees during cold, rainy weather is pretty certain to start that most dangerous winter disease, roup, among the pullets.

Then, too, a good mash should always be kept before the hens. Here is one that has been tried and found very satisfactory. Bran, 100 pounds; middlings, 100 pounds; ground oats, 100 pounds; corn meal, 100 pounds, and meat scrap or tankage, 100 pounds.

For thin birds, increase the morning grain ration. But, if in good condition, less feed can be provided. Regardless of the flesh condition of the birds, feed a heavy grain ration at night. High egg production is stimulated through a liberal feeding of milk, which will reduce the amount of meat scrap or tankage required.

APPLE AND POTATO SHOW WIN-NERS.

A SIDE from the sweepstakes win-ners which are mentioned in the report of the Apple and Potato Show, the winners of potato prizes are:

White Rurals—First, C. R. Millar, of Manistique; second, George Harrison, Manton; third, Mike Smilowski, Gay-

Green Mountains—First, John De Longchamp, of Champion; second, Joe Yelle, Sands; third, Rasmus Olsen, of

Sands.
Irish Cobblers—First, George Harrison, Manton; second, John Mosser, of Weadock; third, J. L. Kraker, Beulah. Early Ohios—First, William Howe, East Jordan; second, C. R. Millar, Manistique; third, Clare Glick, of Saranac.

anac.
Any Other Variety—First, Charles Albert, of Vulcan, with Russet Burbanks; second, C. R. Brudy, Wolverine, with Bliss Triumphs; third, Peter Diehm, Remus, with Russet Burbanks.
County Exhibits, Best in the Order Named—Otsego, Cheboygan, Emmet, Presque Isle, Kalkaska, Alpena and Weyford

Presque Isle, Kalkaska, Alpena and Wexford.
Grand Rapids Press Special, Best Half Bushel for Eating Purposes—First, Lee Sneathen, Charlevoix; second, E. Sutton, Central Lake; third, George Harrison, Manton; fourth, Thomas Stadden, South Boardman.
Potato Exchange Exhibit—First, Central Lake Marketing Association; second, Lake City Marketing Association; third, Marquette County Farm Bureau; fourth, Manton Cooperative Marketing Association; fifth, Channing Marketing Association; sixth, Manton Coop; seventh, Kingsley Cooperative Marketing Association; eighth, Wolverine Shipping Association; ninth, Boyne City Marketing Association; tenth, Manton Co-op.
The Apple Premium Winners.
Benzie county, winner of the lion's share of premiums on apples at the show in 1922, did not fare so well in the awards on single plate classes this year, all of the sweepstake ribbons in these classes going to growers south of Mason-Mecosta county line. Sweepstake winners on single plates were as follows:
Wealthys, Rex Roberts, Grand Rap-

south of Masoninecosta touting have sweepstake winners on single plates were as follows:

Wealthys, Rex Roberts, Grand Rapids; Grimes Golden, Heath Holden, of Milford; Jonathans, Pickford Bros, Doster; McIntosh, S. J. Cowan, Rockford; Fameuse (Snow), H. Schaefer & Sons, Sparta; Greenings, Oscar Braman, Grand Rapids; Northern Spys, Gordon Frost, Lowell; Wageners, A. J. Dowd, Hartford; Hyslop Crabs, Mrs. T. A. Farrand, Eaton Rapids; Steele Reds, F. C. Sherman, Hart.

The best plates by sections were exhibited as follows: Southwestern Michigan, Delicious, by Pickford Bros., of Doster; southeastern Michigan, Steele Reds, by Farley Bros., Albion, northern Michigan, McIntosh, by R. Rhobothen, Beulah.

Rhobothen, Beulah.

Rhobothen, Beulah.

Competition was keen in the plate display classes. L. A. Spencer, of Kibble, exhibiting 105 varieties in his entry, won first prize. Russell Braman, of Grand Rapids, entered the best plate collection of standard varieties, while the best ten-plate of one variety was shown by his father, Oscar Braman. The best collection of pears was exhibited by Taylor & Jager, of Douglas.

Alfalfa campaigns will be conducted in Newaygo, Ottawa, Midland and Muskegon counties after the work is completed in Barry county.



You can now get more eggs from any kind of mash feed

A remarkable feeding discovery practiced by successful poultry raisers

get more eggs.

Whether you have three hens in the back yard, or 3000, it will pay you to do what thousands of successful egg producers are doing. The cost is nothing—because even a slight increase in eggs will pay the bill many times over.

New facts on feeding

Modern study of the diet for hens has brought out some amazing facts. When put into practice on thousands of hens over a period of years, the results have been equally amazing. It has been proved that there are a great number of minor food necessities that many folks overlook. No matter how good your feeds are, these necessities must be supplied to get a big egg yield.

Take the mash you are now using. No matter how good it is, in all such diets many of the vital elements are missing. Hens cannot lay as heavily or steadily without them, Mixing in barley, buckwheat, millet or sunflower improves the flavor, but they do not make up

Mo matter what you are feed-ing your chickens, you can vigorous health and big production depend.

A hen cannot lay half an egg. It needs certain vital food elements to form a complete egg or it cannot lay steadily. Pratts proved the necessity of these elements fiftyone years ago. Modern science now recognizes them all. There is no other way to make hens lay for profits.

The secret of more eggs

Try this experiment. Take the mash you now have—any kind. Mix with each 100 lb. lot, 25 cents worth of Pratts Poultry Regulator. That's enough regulator for 25 hens for a month. Count the extra eggs you get: There's the secret. Folks who are making money on eggs have been doing it for years.

Pratts Poultry Regulator is not a tonic, medicine or something to force egg production. It's simply a corrective and supplement for any diet. It is made up of roots, barks, herbs, rare seeds and an abundance of the vital minor food essentials gathered from every quarter of the globe. It means more eggs from any mash, because it supplies the hen with all the elements needed for

perfecthealth and egg-making that your mash lacks. For fifty-one years it has been the secret of more eggs.

Results guaranteed

If you buy Pratts in the convenient 12 or 25 lb. pails it will cost you less than one cent a month per hen. Your dealer has it now. He is one of 60,000 who recommend it and is authorized by us to return your money if it fails.

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New Edition Just Out (New From Cover to Cover)

Neither novice nor expert can afford to be without the secrets of success with poultry contained in this little book of facts. It pays to have this scientific, tested knowledge-and you may have a copy without cost.

Learn how to put your fowls in the pink of condition; how to keep them so; and of the invaluable Pratts Foods and remedies which sixty and dealers sell on money-back guar-



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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.

R OR SALE—Guernsey Cows and Bred Heifers, May Rose Breeding, A. R. Backing Bull Calf born May 2, 1923. Dam on A. R. Test. Accredit Herd. See them to appreciate them. Gilmore Bros., Camden, Mich.

REGISTERED GUERNSEYS-T. B. Tested. Young Bulls, \$50; 5 Cows and 5 Heifers. Prices reasonable Dr. W. R. Baker, 4800 Fort St., West, Detroit, Mich.

Guernsey Heifer Calves for sale, 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.

For Sale: Registered Holstein-Friesian Bull 2½ years old. His sire is half-brother to the only 50-1b. butter cow, and he has over 50 half-sisters that are 30-lb. or over butter cows, and an own aunt at 4 years gave 29,000 lbs. milk one year, 841 lbs. in 7 days. J. M. Whitney, Highland, Mich.

BULL, PURE BRED HOLSTEIN ready for service, reasonable prices. LARRO RESEARCH FARM, Box A. North End Station, Detroit.

\$100 a yr. gets granddaughter of Maplecrest Korn. Bred to 858-lb. bull. Federal tested. M. McLaulin, Redford, 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 \$60,600 sire. These bulls are from R. of M. cows. Write to Coldwater Jersey Farm Coldwater Mich. from R. of M. cows. Farm, Coldwater, Mich.

FOR SALE: Jersey bulls ready for service. All cows Register of Merit. Accredited herd. SMITH AND PARKER. R. 4. Howell, Mich.

Registered Jersey cattle. young bulls, for sale, Tuberculin tested 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 Beeves in the shortest possible time and in the most economical manner. They realize extreme top prices at a year old. Under the Sotham System 69 head from nine producers in one week averaged \$95.60 per head, weighing from 750 to \$80 lbs. It is to your interest to investigate this system. Repeater, Fsirfax, Beau Donald Breeding at practical prices for Taising beef. Terms. Auction Sale 75 head, November 2d., 1923, at St. Clair, Mich.

T. F. B. SOTHAM & SONS. (Herefords since 1839) St. Clair, Mich.

HEREFORDS

Bulls, Heifers and Cows with Calves by side. Most popular strains, Allen Bros., 616 S. Westnedge St., Kalamazoo, Mich.

Registered Herefords For sale; 12 cows and RALPH CALHOON, Bronson, Mich.

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

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

M ILKING Shorthorn Bull, Calved Sept. 25, 1923, Dark Roan from 1,500-lb, good roan Clay bred Cow, and Sired by Countryman's King, a great son of Glenside Dairy King and out of Bessie Thorn-dale 3d. Record 12,759 lbs. Also one red with little white, same age and breeding. Price \$75. Herd tested. Irvin Doan & Sons, Croswell, Mich.

For Sale, Dual-purpose Shorthorns, either er, See'y, Central Michigan Shorthorn Breeders' Association, Greenville, Mich.

For Sale: Reg. Milking Shorthorn helters. One year-old, two, one-year-old, one white two-year-old, two, one-year-old, both roans. Write M. B. Hallsted, Orion, Mich.

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.

Red Polled Bulls Cows and Heifers, Oxford and Tunis Sheep, York-shire Swine, E. S. Carr, Homer, Mich.

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

W ANT to buy 3 or 4 Brown Swiss cows. Must be near fresh, and of good quality. Address G. J. Goosin, R. R. 1, Washington, Mich.

HOGS

Andy Adams Duroc - Jerseys **Look Before You Leap**

Why Experiment with Untried Blood Lines?

Topmast Sensation is backed by generations of Grand Champion Boars and Sows. Naturally he transmits his wonderful individuality to his offspring. We are offering some June Boars, also some September pigs at \$30.00 each, sired by TOPMAST SENSATION.

LOEB FARMS, Virgil Davis, Supt. Swine Charlevoix, Michigan

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 Rose Street, Kalamazoo, Michigan.

Registered Durocs

FOR SALE.—Young boars and gilts bred from the best herds in Michigan and Ohio, at reasonable prices and fully guaranteed. W. E. Bartley, Alma, Mich.

LARGE TYPE DUROC BOARS A wonderful lot of spring and fall yearlings and spring pigs. Write or come for description and price. Clyde A. Kershaw, Plainwell, Mich.

DUROC
Sensation Boy, Prices reasonable. Write us your wants. Norris Stock Farm, Casnovia, Mich.

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

FOR SALE Big Husky Duroc Jersey spring boars from large prolific stock. Cholera immune. Satisfaction guaranteed, Jesse Bliss & Son, Henderson. Mich.

D UROC fall and spring boars of the best breeding and quality, at prices to sell. Fall pigs at bargain prices. W. C. Taylor, Milan, Mich.

D UROC Bargains. Boars and Gilts, Breeding the Best. Price the Lowest it has Ever Been. E. Heydenberk, Wayland, Mich.

DUROC JERSEYS AND DELAINE MERINOS CAREY U. EDMONDS. Hastings, Mich.

O. I. C's and Chester Whites

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.

Litchfield, Mich. ANDY ADAMS.

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

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 March boars, and Sept. pigs, Sired by Giant Boy, Senior Champion at West Mich. State Fair, 1923. Milo H. Peterson, Ionia, R. 2, Mich.

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

O. I.C.'s 75 spring pigs, pairs not akin, from 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 Etten, Clif-ford, Mich.

R EG. 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 and Red Polled bulls, Jacob Berner Ledge, Mich.

WESLEY HILE **POLANDS**

A few choice boars for sale at \$20 up. Every Animal Immuned and Guaranteed a Breeder. Service to Emancipator 2nd or cur 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.

L ARGE Type Poland China Spring Boars, Sired by Hover's Liberator 4th, prize age boar at Detroit, and out of Gertsdale Lady 5th, Fifth prize age sow at Detroit and champion sow at Saginaw, Fall pigs not akin. Writeforprices, Dorus Hover, 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.

GIRLS SET NEW MILKING RECORD.

IT all happened while the long-distance dance craze was on. Day after day the big metropolitan newspapers were telling of new records by bob-haired flappers with rouged cheeks who were able to dance all day and all night without a pause. Some all but-died from exhaustion.

"Let's have a contest, too," suggested a full-blooded dairy farmer to some of his near neighbors. "Our girls aren't much on the new-fangled dances, but they've got the world licked when it comes to milking cows."

tle marathon that may escape historians, but which thrilled the country folks to a high pitch of enthusiasm.

By a process of elimination fourteen girls and women won their way into the milking finals. Fourteen high-producing cows, clipped and groomed, were entered. When all was ready the

pasture field, if given a chance at the weeds while the leaves are still tender and succulent. Sheep are particularly fond of the leaves of plants which they strip off, leaving the plant to die.

The sheep are wintered easily, and with the addition of a little clover or alfalfa hay they will find a great part of their roughage in the stalk fields when these are not snowed under. They require very little grain until they approach the lambing period, when it will be found profitable to give them oats, which are usually not high-priced, with perhaps the addition of some corn, though we have not found it advisable to feed very liber-Whereupon was staged a unique lit- ally of corn, which has a tendency to cause them to fatten and lose their wool prematurely. It is not necessary to purchase a lot of high-priced feeds in order to keep sheep.

Nor does it take expensive or elaborate equipment to house sheep. They are a great outdoor animal, but they should be protected from rain, sleet



When Rouge-faced Flappers Started their Dancing Marathon, the Country Girls Were Quickly Interested in a Milking Marathon.

came silent.

"Go!" boomed the referee, and twenty-eight streams of milk went rushing into the pails. A few moments later when time was called Mrs. Hattie Garrelts arose from a wobbly cracker box and bowed to the cheering crowd. She was presented with a substantial cash prize and a gold banner. She distributed among the spectators two foaming buckets of milk that had taken first honors.

"Well," drawled one farmer, as he raised a foaming glass of the warm milk to his lips, "I wonder how much milk a respectable cow would produce for one of those bob-haired dancing flappers? Not much, I guess. But this was a real marathon even if we didn't make the front pages."-R. M.

GROWERS LOSE WOOL CASE.

WOOL growers and the government lost their case in which they contended that combing wools were intended to be classified under the general heading of "clothing wools" in the Emergency tariff.

The decision, which was made by Associate Judge Oscar E. Bland, of the United States Court of Appeals, will result in the loss of several million dollars in revenue to the government as the importers, who appealed from the ruling of the board of appraisers, will not be required to pay the duties at the high rate assessed.

definite terms in framing tariff bills vate. s brought out in this decision.

SHEEP ON THE DAIRY FARM.

M ANY dairy farms can support a small flock of sheep to advantage where their usefulness will be found in helping to control or subdue weeds in the pasture fields or in utilizing small pasture lots or fields where the dairy cows cannot be put in handily. They can be made a source of income, too, both from wool and lambs or from well-bred registered stock.

No animal will do more than sheep to keep weeds in submission in the

crowd moved off a few paces and be- and falling snow to prevent their catching cold. Low removable partitions or hurdles are very handy when the lambs begin to arrive, to keep the ewes with young lambs separated a few days. If ewes are bred to have the lambs come during the month of May most of the lambs may be dropped in the pasture field, as some farmers make a practice of doing when barn space is too limited to house all the ewes and early lambs comfortably. -J.-L. Justice.

HOGS SELL TO BUYERS' ADVAN-TAGE.

A SURVEY recently completed by the United States Department of Agriculture indicates that the sale price of pure-bred hogs for the first six months of 1923 were slightly lower than the average for the twelve months of 1922.

The average prices of all ages of both sows and boars by breeds were as follows: Duroc-Jersey, \$43.20; Hampshire, \$42.12; Poland China, \$39.35; Chester White, \$38.80, and Berkshire, \$26.37.

The lower average of Berkshires, it is explained, was in some measure due to the fact that sixty-four per cent of the sales of the breed reported were pigs under eight months old. Very few sales of boars over two years old of all breeds were reported. Prices obtained at auction sales were some-The necessity for the use of more what higher than those made in pri-

> WILL INVESTIGATE SYSTEM OF DESTROYING NOXIOUS MALS.

SINCE there is considerable controversy and doubt regarding the advantages respectively of the present system of warden hunters and of the former bounty system in ridding the country of noxious animals, a committee consisting of Mr. A. C. Richards, of Marquette; Mr. Clarence Randall, of Ishpeming, and Mr. Leigh Swift, of Houghton, was appointed to investigate the question and report.

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DAIRY BRIEFS.

A dairy and alfalfa campaign will be conducted in Barry county during these first two weeks in December.

Henry Ford, automobile manufacturer, has purchased one hundred head of Ayrshire cows from the Ravinia herd of Indiana. These cattle will be placed on Mr. Ford's Dearborn farm.

An effort is being made in Kent county to organize a fifty-member cowtesting association. The plan is to employ two cow-testers to do the work of testing.

Alphonse Kluskens, of Dickinson county, discovered, after having joined the local cow-testing association, that ten boarder cows would soon break any well-to-do farmer, while ten good producers would soon place any farmer on his feet.

ANOTHER CALL FOR COW-TEST-ERS.

THERE is a demand at the present time for a good many men to fill positions in cow-testing associations in Michigan. The duties of such menare to weigh the milk from each cow in the several herds and test it for butter-fat with the Babcock test. The feed is weighed out for each cow for one day each month. The tester must be a man of experience in handling cows and must have a knowledge of balanced rations and methods of feeding. The tester goes to each association member's place for one day out of each month and makes this one day record. The total record for twelve monthly trips enables him to give the members a complete record of production and food costs for each cow for one year.

Men with experience between the ages of twenty and forty are preferred for this work. Any one interested may write to the Dairy Department, Michigan Agricultural College, East Lansing. Michigan.

LIVINGSTON POLAND CHINAS AT PUBLIC SALE.

THE Big Type Poland China herd of W. E. Livingston, at Parma, is perhaps the oldest herd of Big Types in Michigan. He has enjoyed a very satisfactory private trade for many years, and has always held his place in the vanguard. Now that public sales are becoming popular, Mr. Livingston must be up in the front row as usual, so he has recently held his first public sale of pure-breds.

A former employe of his, and now a good neighbor, Ernest Jackson by name, raises a good many hogs of Livingston breeding, and he consigned fifteen head to the sale. Mr. Livingston's draft numbered twenty-seven head, and with the exception of half a dozen head the offering was made up entirely of spring pigs. When it is considered that the animals were all homebred and raised, with one exception, and that the entire offering was sold, the sale ranks as about the most successful sale in the state this fall. The forty-two head sold for a total of \$1,688, an average of more than \$40 per head. Those raised by Mr. Livingston himself averaged \$47 each.

The names of the buyers follow: L. F. Foster, Rives Junction; A. D. Gregory, Ionia; W. J. Clark, Eaton Rapids; Floyd Whittaker, Concord; J. W. Knapp, Monroe; Michigan Agricultural College, East Lansing; W. A. Geisenhafer, Dimondale; P. P. Pope, Mt. Pleasant; E. B. Goodwin, Montgomery; J. W. Corsenbury, Munith; L. H. Gretton, Mason; E. G. Kenyon, Grand Ledge; G. R. Dickie, Coldwater; Glen Folks, Hanover; Edward Clark, Alma; Howard Riley, Charlotte; N. Fay Borner, Clarence Mulligan, Fred Wilson, Thomas Talbot, W. A. Hennis, all of Parma; J. S. Bean, W. F. Hall, C. P. Raymond, Wesley May, all of Jackson,

Closer Skimming
-Easier Running
-Longer Life

With the NEW Cream Separator

In 1913 it took 231 lbs. of butter (average price for the year) to pay for a popular size De Laval Cream Separator. In 1923 (average price for the first ten months) a De Laval of the same size can be purchased for 206 lbs. of butter, 25 lbs. or 11% less than in 1913. In addition, the De Laval of today is a very much better machine, having 10% more capacity, a Bell Speed-Indicator, self-centering bowl, a bowl holding device, and other improvements and refinements.

You Lose Money by Not Having a New De Laval

With high-priced butter-fat, you lose money by using an inferior or worn-out cream separator. There are hundreds of thousands of cream separators in use today wasting the price of a new De Laval in from six months' to a year's time. There is enough butter-fat being wasted in this manner to keep several factories the size of the De Laval Plant, the largest in the world, running full force.

\$6.60 to \$14.30 Down \$3.96 to \$8.58 per Month

If you want to buy a cream separator on the installment plan you can now get a De Laval on extremely easy terms. Practically all De Laval Agents sell them that way. For \$6.60 to \$14.30 (depending on the size) you can start using a high-quality, long-life, cream-saving De Laval; and then for \$3.96 to \$8.58 per month you can easily pay for it out of cream checks or butter money. (Prices slightly higher on Pacific Coast and in Canada.)

The De Laval Milker

If you are milking ten or more cows by hand you need a De Laval Milker. Like the De Laval Separator it will soon pay for itself, and is a quality product. There are already more than 15,000 in use giving remarkable satisfaction. A De Laval Milker not only saves a great deal of time and drudgery, but because of its pleasing and uniform action usually causes cows milked withit to give more than by any other method of milking. It also produces cleaner milk. Send coupon for complete information.

A Better De Laval

The new De Laval Separator, which has now been on the market for over a year and of which there are already more than 100,000 in use, is acclaimed on all sides as being the best De Laval ever made. That is saying a great deal when it is considered that De Laval Separators

- have millions of users who regard them as the finest machines made;
 have won more than 1100 prizes for superiority of operation and construction;
 are overwhelmingly endorsed for efficiency of service by cow testers, who reach over 6000 farms:

over 6000 farms;
—are used and approved by creamerymen, college and dairy authorities;
—and have the longest record of use, as proved by the life of the thousands of machines in the "Oldest De Laval Users Contest," which averaged over 20 years.

With such remarkable achievements a new De Laval must be very good indeed to be better—and it is. Convince yourself. Ask your De Laval Dealer to show you the new De Laval. Try it alongside of any separator made and you will be convinced of its superiority.

The new De Lavals have all the good features of the old, plus: Self-Centering Bowl. The De Laval Bowl is so designed as to center itself when it attains separating speed, eliminating vibra-

tion, which adds to its efficiency and life. 2 Light Running. The De Laval Bowl is so designed as to shape, height, diameter and distribution of weight as to afford the least possible resistance in being revolved, which together with the automatic oiling system, and superior design and construction of the driving mechanism, requires the least power (per pound of capacity) to drive.

3. All-Around Superiority. A combination of the foregoing features, together with superiority of De Laval design, workmanship and materials, enables a De Laval to separate more thoroughly under all con-

ditions of use, delivering a smoother and richer cream. Greater Convenience is also obtained in the new De Lavals through the use of a bowl holder which is attached to the machine.

SELF CENTERING BOWL Ask your De Laval

DE LAVAL CREAM SEPARATORS

FARM & DAIRY SIZES

ROYAL

THERMIC FOUNTAIN

KEEPS WATER WARM IN WINTER-

Send for this

Tells All About per constitute New De Laval County by the state of constitute word on Cream Separators. Storage of the state of the sta State

BOWSHER'S HEAVY-DUTY GRINDERS

FOREMOST AMONG BETTER GRINDERS
Crush and grind all the grains that grow; fine for hogs or coarser for cattle feeding, Corn in busk, Head Kafirs, and all small grains.
Strength, Durability and Service radiate from every line of these Masterful Grinders. Simple, yet effective in adjustment. Last a lifetime.
LIGHT RUNNING — LONG LIFE — EXTRA CAPACITY CONE-SHAPED BURRS
10 sizes—2 to 25 H. P. or more. Also Sweep Mills.
It pays well to investigate. Catalog FREE.
The D. N. P. Bowsher Co., South Bend, Ind-

Stewart No. 1 Clipping Machine bigh quality product—easy to operate—ready for immedi-use. Clips horses also. Only \$12.75 or send \$2 and psy ance on arrival. EXIBLE SHAFT COMPANY G576 Roosevelt Road, Chicago rid's targest makers of clipping and shearing machines. Complete catalog on request. COOL IN SUMMER

A favorice with leading poultrymen the country over. No valves, No trouble, No upkeep. Absorber over the country foundant wanter the country foundant to the c DEPT. J123 TOLEDO, OHIO HOGS



BOARS at half price. Big Type Poland 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.

Old Fashioned Spotted Poland Chinas

"The Hog of the Hour-The Feeder's Type" Prize winners of both sexes for sale.

Spring Brook Farms, Three Oaks, Mich.

L. T. P. C. Boars and Gilts all go at private man, \$40. Michigan Champion herd for 3 years. A. A. Feldkamp, Manchester, Mich.

L ARGE TYPE POLANDS—Boars and Gilts. Sired by Michigan Liberator, a Son of Liberator, the King of Sires; and Giant John, a great son of the noted Checkers. Geo. F. Aldrich, R. 6, Ionia, Mich.

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

P.C. Boars and Gilts 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 Gilts, a few yearling sows. One of the breed's best boars heads herd. Geo. O. Strong. Burlington, Mich.

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

For Sale Oxford Rams & Ewes

EWES For sale in car lots, 2 yrs, old, faced. In good condition, A. B. CHAPMAN & SON, So. Rockwood, Mich.

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

Shropshire Rams and Ewes

Please Mention The Michigan Farmer When Writing to Advertisers



GRAIN QUOTATIONS

Wednesday, December 5.

Wheat.

Detroit.—No. 1 red \$1.11½; No. 2 red \$1.10½; No. 3 red \$1.07½; No. 2 white \$1.11½; No. 2 mixed \$1.10½.

Chicago.—December \$1.05½; May \$1.11@1.11½; July \$1.08½.

Toledo.—Cash \$1.11@1.12.

Detroit.—Cash No. 3 yellow at 82c; No. 4 yellow 77c; No. 5, 72@73c; No. 6, 67@68c.

Chicago.—December at 73%@73½c; May 74%@74%c; July 75%c.

Oats.

Detroit.—Cash No. 2 white at 501/2c; No. 3, 48½c. Chicago.—December at 43½c; May 46c; July 44%c.

Rye.

Detroit.—Cash No. 2, 73c. Chicago.—December at 67c; May at 74% c. Toledo.—73c. Barley.

Barley, malting 75c; feeding 71c. Buckwheat.

Buckwheat.—New milling \$2.03 cwt. Beans. Detroit. -

-Immediate and prompt shipments \$4.75 per cwt. Chicago.—Choice \$5.70; red kidneys

at \$8.20 New York.—Choice pea at \$5.75@6; red kidneys \$7.75@7.90.

Seeds-

Detroit.—Prime red clover cash at \$13.37; 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 \$4.50@5; 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

While the future of the wheat market during the rest of the crop year remains in doubt, it continues to resist what appears to be a rather formidable battery of bearish forces. Domestic conditions, including a declining rate of movement from farms and a shrinking balance available for export are gradually gaining strength. To these will presently be added a gradual decline in the amount of wheat in sight at terminal elevators. These changes may provide the cue to the action of the market in the next six months. During the last few days, the domestic milling demand for wheat has improved at a number of markets, but, in general, mills are believed to be fairly well stocked up and the flour trade is rather slow, while the lower market for wheat feeds also is unfavorable. Deliveries of wheat on December contracts have been smaller than expected during recent weeks, as elevators wish to obtain carrying charges. charges.

CORN

Demand for corn in the commercial channels from feeders, from shippers to eastern dairy districts or to the southeast and from corn industries has fallen off. Prices have declined around 40 cents a bushel in the last five or six weeks. It is evident, however, that the market is near bottom, and prices have become more stable during the last few days. Primary receipts of corn have expanded until they are much heavier than last year, but accumulation at terminals has been small. Producers are not disposed to sell quite so freely on the decline, and lower prices will stimulate feeding on the farm. The quality of new corn arriving runs better than expected as the weather has been favorable for drying.

OATS

The visible supply of oats has declined about ten per cent during the last month. Primary receipts are light and the demand is gaining in strength. Partial closing of the wide gap between corn and oats prices seems likely to take place during the next six or eight months.

SEEDS

Red clover-seed prices declined at Toledo last week. Demand from the seed trade is rather slow and more foreign seed was offered on the advance during the previous week. Domestic seed prices are relatively firm as discriminating buyers prefer it, even at a big premium over foreign seed unless the latter is grown in a climate comparable to our own. It is rather generally believed that the government's estimate of the domestic crop is still too high.

FEEDS

The feed market is weak, especially in the east as consumers are not taking hold with vigor, even at the lower prices. Offerings in transit are being pressed for sale. Flour mill operations continue below the average for this season of the year. Gluten feed and hominy have declined as a result of lower prices for corn. Offerings of these feeds are rather heavy.

Hay markets were firm last week

Hay markets were firm last week with prices 50 cents to \$1 higher generally, although Chicago was lower. Lower grades which form an unusually high percentage of the receipts are moving sluggishly. Country loadings have increased slightly since the producers are less busy with farm work.

POULTRY AND EGGS

Fresh egg prices declined rather sharply last week. Receipts of eggs at the leading markets increased, especially at Chicago, where consumption was curtailed by a boycott engineered was curtailed by a boycott engineered by a local newspaper. The movement of storage eggs has been disappointing and the situation was already weak because of the large holdings. The undertone was more steady at the close and fresh egg prices may recover again during the next two or three weeks if receipts become lighter once more and bad weather holds back the increase in the lay which usually starts by the first of the year. The receipts of poultry have been extremely heavy. An abundance of turkeys arceipts of poultry have been extremely heavy. An abundance of turkeys arrived for the Thanksgiving trade and prices at some points were the lowest they have been for eight years. More dressed turkeys were received than were wanted, the surplus going into storage and adding to the already large stocks

storage and adding to the already large stocks.

Chicago.—Eggs, extras 53@54c; miscellaneous 42@45c; dirties 24@26c; checks 20@23c; fresh firsts 44@47c; ordinary firsts 35@40c. Live poultry, hens 20c; springers 19c; roosters at

12½c; ducks 18c; geese 19c; turkeys

23c per pound.

Detroit.—Eggs, fresh candled and graded at 46@48c; storage 26@29½c. Live poultry, heavy springers 22@23c; light springers 16@21c; heavy hens 22@23c; light hens 13@20c; roosters at 13@14c; geese 20@21c; ducks 18@21c; turkeys 28@35c.

BUTTER

BUTTER

The butter market became firm at the moderate decline a week ago and small advances have occurred in the last few days. Confidence is more general as the supply of fresh available on the market is not larger than is moving promptly into consuming channels. Production reports show no material change and the winter increase may not develop for another thirty days. Withdrawals of butter from storage have been lighter than last year so far as the four leading cities are concerned, but they are believed to have been relatively heavy from other points. The market is evidently biding its time to determine the volume of production during the winter, the size of the remaining reserves in storage and the amount of competition from abroad. Some fairly large shipments were reported either on the way or contracted for later shipment. New Zealand is shipping freely as its flush season is at hand.

Prices on 92-score creamery were: Chicago 52½c; New York 54c. In Detroit fresh creamery in tubs sells for 44@49c.

Centralized car-lots, 92-score, Chica-

44@49c

Centralized car-lots, 92-score, Chicago, 50½c; Boston 49c.

POTATOES

Carlot shipments of potatoes from producing districts declined nearly one-third during the last two weeks. The Chicago market has shown a stronger response to this decline as it was below the level of markets elsewhere. Round whites U. S. No. 1 are quoted at 90c@\$1.20 per 100 pounds, sacked and bulked in Chicago, and at \$1.50@1.65 in eastern cities.

The apple markets are inactive as consuming channels have not fully digested the heavy shipments of October and early November. Prices are low enough to furnish a stable foundation and a moderate advance seems likely to occur as the effect of lighter shipments from the producing sections becomes noticeable in receipts at the leading cities. Mid-western Jonathans and Northern Spies are quoted at \$5.50 @6 a barrel, and Baldwins at \$4@4.50 on mid-western consuming markets.

BEANS

BEANS

The bean market is dull with a fittle buying right along, but it is confined to immediate shipment as wholesalers wish to avoid carrying stocks into the inventory season. On the other hand, farmers' deliveries are light and beans are not being pressed on the market. Michigan hand-picked whites are quoted at \$5 per 100 pounds f. o. b. shippoint points for shipment any time up to the end of the year. Pintos are quoted at \$4.25 f. o. b. Colorado points. Last sales of Great Northerns were at \$6 but the market is weaker and nominal quotations are around \$5.50@5.75. Freight into mid-western consuming markets is 75 cents higher on Great Northerns than on small whites from Michigan, so that the cost of the former to the consumer is considerably higher than for small whites.

WOOL

Demand for wool is slightly less active but continues on a moderate scale and prices are firm, with an upward tendency. Buying is under way, both in seaboard markets and in the southwest, although prices in the latter section have advanced until they are out of line with eastern points. The foreign markets are buoyant at advances of five to ten per cent over two or three weeks ago. The low rates of exchange are helping purchases in Australia for shipment to this country. The goods market is not brisk but mills are receiving enough orders to maintain a fairly good rate of activity.

GRAND RAPIDS

Fresh egg prices in Grand Rapids broke with a bang early this week, falling to 50 cents a dozen in two days as compared with 58 cents, the peak before the decline set in. Accumulated stocks from Thanksgiving unsettled the market. The poultry market was quiet this week, with some of the produce houses withdrawing quotations on turkeys. Fowls remained unchanged from Thanksgiving, with the supply ample. Prices continued downward on potatoes, farmers offering tusupply ample. Prices continued downward on potatoes, farmers offering tubers at 45 cents a bushel. Onions were weak at \$1.25 a bushel, and apples were in moderate demand. The leaf lettuce crop was cut close to production for the Thanksgiving trade. The resultant light supply has tended to maintain the market around 12 cents a pound. Radishes were firm at 75 cents a dozen. The bean market continues demoralized with the trade apparently neglecting the white varieties. Wheat strengthened this week, prices at mills advancing five cents a bushel to 93 cents early this week.

Live Stock Market Service

Wednesday, December 5.

DETROIT

Cattle.

Market slow.	
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@	
Light butchers 3.50@	
Best cows 4.75@	
Butcher cows 3.25@	
Cutters 2.75@	3.00
Canners 2.00@	2.50
Choice bulls 4.50@	5.25
Bologna bulls 3.50@	5.00
Stock bulls 3.00@	4.50
Feeders 4.50@	6.25
Stockers 4.00@	6.00
Milkers\$ 45@	85
Veal Calves.	

Market opening strong.

Sheep and Lambs.

Hogs.

CHICAGO

Hogs.

Receipts 36,000. Market very slow.
Weak to 10c lower than Tuesday's average. Bulk of good and choice 200
to 300-1b. butchers \$7.05@7.25; tops at
\$7.35; bulk of good 160 to 190-1b. average \$6.70@7; bulk of packing sows at
\$6.60@6.85; killing pigs dull; few good
strong weights around \$6.25.

Cattle.

Receipts 9,000. Market on fat steers
and yearlings active. Strong to 25c

Receipts 9,000. Market on fat steers and yearlings active. Strong to 25c higher. Good beef heifers showing advance. Early top yearlings at \$12.25; good steers \$11.50; some prime kind held around \$12.50; fat cows higher; vealers 25@50c up; bulk to packers at \$9@9.75; few \$10 and upwards to \$10.50.

Sheep and Lambs.
Receipts 11,000. Market slow. Killing classes generally steady. Feeding lambs are scarce, look around steady. Good and choice fat lambs at \$12.50@ 13; early tops to city butchers \$13.15; odd lots of medium and handyweight ewes \$6.50@7. No early sales of feeding longles

BUFFALO

Cattle.

Receipts two cars. Market steady. Calves at \$13.50.

Hogs.

Receipts 30 cars. Market is strong. Heavy and yorkers \$7.75@7.85; pigs \$7.50@7.75.

Sheep and Lambs.

Receipts five cars. Market strong. Top lambs \$13.25; yearlings \$9@10; wethers \$7.50@8; ewes \$6@7.

DETROIT CITY MARKET

Receipts of potatoes average eight cars per day. On the track there are about 37 cars holdover, which indicates a dull market. Jobbers get \$1.40 @1.50 per 150-lb. sack. Farmers are averaging 75c per bushel, with demand light. Around 30 cars of apples are on track, with demand light, but market is *steady at \$1.25@1.50 per bushel. More ordinary stock gets 75c@\$1.05 per bushel. Farmers on their market get \$1.25@2 per bushel. Liberal supply of cabbage. Michigan Danish in carlots sells for \$20 per ton. Domestic kinds sell for \$13 per ton. Fresh eggs scarce and sell at 75@90c per dozen. A moderate supply of chicken and turkeys, but liberal amounts of ducks and geese. Spring chickens at 22@24c wholesale; retail 25@28c; hens, wholesale 20@24c; retail 25@28c; ducks, wholesale 22@25c; retail 25@28c; geese, wholesale 19@24c; retail 26@28c; turkeys 36@42c; wholesale and retail 45@50c; hogs 12@13o per pound; veal 15@17c.

Cattle prices advanced sharply last week, chiefly because of a lighter supply. Combined receipts at the leading markets dropped below 190,000 head, compared with 317,000 head six weeks previously. The decline in shipments to the country has fallen but little in that interval so that the net supply going to slaughterers has contracted even more drastically than the foregoing figures would indicate.

COMING LIVE STOCK SALES.

Poland Chinas.

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

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

TO MAKE PIG SURVEY.

THE results of a new pig survey, conducted by the department of agriculture in connection with the post office department, will be an nounced around January 10.

More than 450,000 pig survey cards were distributed to as many hog raisers by rural mail carriers.

TO GET MORE ACCURATE ESTI-MATES OF CROPS.

A CROP speedometer, an acreage measuring device, has been invented in the department of agricultural economics and is now in use by the crop estimators.

This instrument contains twelve





As a special introductory offer, we will give you a 300 Candle Power Sunray Lantent FREE with the first purchase of a Sunray Lamp.

Write today for full information and agency proposition

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Paline stumps for yourself Cheapest Way and others with Herciles the fastest, easiest operating stump puller made, to Pull Stumps to Pull Stumps

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Be An Auctioneer Receive from \$10 to \$500
per day Send for large
PRESI HINETRATE CAtalogue
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Indian and Pedigroe Study
Winter Term opens December
31st. 1923, Address
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Box 10, Decatur, Ind.

FREE

1 lb. of Hersey's Cocoa with 3 lbs. of New York Coffee for \$1.00. Regular price of coffee, 35c a lb. We pay the postage. ay the postage.
FERRIS COFFEE HOUSE

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BARGAIN CATALOG

of Fruit Trees, plants, Ornamentals, Garden and Flower Seeds, 3 to 4-foot Apple 25c; 3-foot Peach 20c each postpaid. Send for L924 catalog of Reliable Trees and Seeds. Allen's Nursery & Seed House, Genera, Ohio.

Holmes, Stuwe Co., 2429 Riopelle St. Commission Merchants. Dressed Beef, Hogs, calves, Poultry, Live & Dressed, Provisions, etc. Correspondence Solicited. Ref. Wayne County & Home Savings Bank. Bradstreet. Detroit, Mich. Cherry 7654

Ship Hay and Grain to the OLD RE Pittsburgh,Pa. GEO. E. ROGERS & CO.,

FARMS & FARM LANDS

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, III, Farm Bargains Central Ark. Particulars and book-

push buttons and speedometers for measuring twelve different crops. When a field of wheat is reached the wheat push button is used, and the instrument registers the distance, until another crop is reached, when the button corresponding with the field, whether corn, hay, pasture or woodland, is pressed into service.

By comparing measurements of each crop from year to year over a certain distance, it is believed that crop acreage estimating can be reduced to a fairly accurate proposition.

NINETEEN POTATO GROWERS WIN MEMBERSHIP.

IN the 300-bushel potato club, organ-ized by the Michigan Potato Producers' Association at the suggestion of D. L. Hagerman, agricultural and industrial agent of the Pennsylvania lines, nineteen certified seed potato growers won memberships this year. The following list gives the names, addresses and yields received by these nineteen successful farmers:

	A. L. Dunlap, Lupton	301
1	E. B. Loehne, Central Lake	322
ij	A. Verschme, Manistique	324
	A. N. McDonald, Millersburg	395
N	Arthur Hockin, Kewadin	333
	Tony Shooks, Central Lake	318
ġ	Irvin Cole, Alanson	359
ij	J. G. Woodman, Paw Paw	350
ñ	C. S. Dearborn, Bellaire	350
	F. Schmalzreid, Levering	342
	M. E. Parmalee, Hilliards	363
	M. A. Rector, Rockford	322
	J. DeLongchamp, Champion	420
S		310
á	Harry Reiley, Bellaire	308
9	R. C. Bennett, Alba	
ij	Lee Sneathen, Charlevoix	390
	H. J. Bonnett, Beaverdam	305
	H. Vandersilk, Central Lake	400
9	W. Bowers & Son, Central Lake	350
d		

MR. OLSEN HEADS BUREAU OF ECONOMICS.

N ILS A. OLSEN has been placed in charge of the Division of Finance of the Bureau of Agricultural Economics, to succeed V. N. Valgren, who resigned to take charge of the crop insurance business of a large insurance company.

Mr. Olsen was appointed to the office of farm management in 1919 to do research work in agricultural history. In 1922 he was appointed to the advisory seed loan committee, and the past fall assisted in preparing the special report of the Secretary Wallace on the wheat situation.

VOCATIONAL EDUCATIONAL WORK.

HE report to congress of the Fed-THE report to congress of eral Board for Vocational Education shows a total enrollment of 536,-528 pupils in the federally aided vocational schools. A total of 5,200 vocational schools received federal aid in 1922-23. Of these, 2,673 were agricultural schools, with an enrollment of 71.298.

TO INTRODUCE our star brand Green River Leaf Tobacco will sell ten pounds mild smoking for \$1.75. Ten pounds Green River and Burley smoking for \$2.55. Ten pounds chewing for \$3.45. and give you a genuine \$1.00 Wellington French Briar pipe free with each order for ten pounds. Postage extra. Satisfaction guaranteed or money refunded. Fifteen pounds Common's Smoking Tobacco for only \$1.45 and postage. Kentucky Tobacco Company, Dept. 15. Owensboro, Ky.

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.

HOMESPUN TOBACCO—Five pounds chewing, \$1.75; ten. \$3.00; twenty, \$5.25. Smoking, five pounds, \$1,25; ten. \$2.00; twenty, \$3.50. Pipe and recipe free. Send no money. Pay when received. Kentucky Tobacco Company, Paducah, 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 begrade Tobacco. We ship no lugs or trash. Valley Farmers' Tobacco Assoltation, Murray, Ky. Box 292.

NATURAL LEAF 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' Union, Paducah, Ky.

LEAF TOBACCO.—Five pounds chewing \$1.75; Ten \$3.00. Five pounds smoking \$1.25; Ten \$2.00; pay when received, pipe and recipe free. Cooperative Farmers, Paducah, Kentucky.



Only the brave deserve the Champions

Men appreciate Hemmeter's Champions—in fact, have been known to go to extreme lengths to obtain them! Why?

Good old ripe tobacco, handmade; same high quality for twenty-eight years. The very thing for an appre-ciated Christmas gift.

AT YOUR DEALER'S In Boxes of 25 and 50

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THE HEMMETER CIGAR CO., DETROIT.

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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. The formulation of the sale of the sale

Rates in Effect October 7, 1922 38.... 39.... 40.... 41....

Special Notice All advertising copy discontinuance orders or change of copy tended for the Classified Department must reach this office ten

MISCELLANEOUS

FOR QUICK DISPOSAL—We offer \$100,000 worth of Government Surplus Goods at bargain prices. Such merchandise as Blankets, Shoes, Underwear, Sweaters, Work Clothee, etc., ctc., 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.

OLD COINS WANTED—Will pay Fifty Dollars for nickel of 1913 with Liberty Head (not Buffalo). We pay eash premiums for all rare coins. Send 4c for large Coin Circular. May mean much profit to you. Numismatic Bank, Dept. M., Fort Worth, Texas.

HOW TO TAN all kinds of Furs at home, chear easy. The secret of tanning sent to any address One Dollar, Address L. E. Davison, Mccosta, Mich.

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

PET STOCK

SCOTCH COLLIES.—White Spitz, Cocker Spaniels, Poodles, Bostons, English Bulls, Fox Terriers, Bull Terriers, Broken Rabbit Hounds. Fox Hounds and Coon Hounds. Live Feerets, Raccoons, Foxes, Guinea Pigs, Large Hares, Pheasants, Pea Fowls, Chinese Geese, Wild Mallard Ducks, Canacies, Parrots, Cages supplied. Circulars free. Detroit Bird Store, Detroit, Michigan.

GERMAN Shepherd, Airedales, Collies; Old English Shepherd dogs; Pupples; 10c illustrated instructive list, W. R. Watson, Box 35, Macon, Mo.

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

POULTRY

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

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PURE-BRED Mammoth Bronze Turkeys, large, vig-orous birds, reasonably priced. Mrs. Ralph Sherk, Caledonia, Michigan. FOR SALE—Bourbon Red Turkeys, Toms \$10, Hens \$8. Unrelated; also African Geese, \$10 a pair. Rudolph Hassler, Sandusky, Mich.

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

FOR SALE—Large White Holland Turkeys, very tame. Mrs. D. E. Dean, R. 2, Milford, Mich.

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

WHITE HOLLAND TURKEYS—Toms \$7; hens \$6. A. E. Shier, Wolverine, Mich.

MAMMOTH bronze turkeys from best breeding stock. Mrs. Eugene Ramsdell, Hanover, Mich. NARRAGANSETT TURKEYS—The kind that gives satisfaction. Ernest Clement, Ionia, Mich.

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BOURBON RED TURKEYS—Hens \$5, Toms \$7. Pine Hill Farm, Howard City, Mich. LARGE Full Blood Bourbon Red Turkeys. Hens \$6; Toms, \$10. Mrs. E. R. Brownell, Rockford, Mich.

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RURAL HEALTH

By Dr. C. H. Lerrigo

WOULD HAVE MOLE REMOVED.

My mother had a cancer and I am very like her. I have a rose mole that I have had ever since I can remember. For three months it has been giving me some pain and enlarging a little. In view of my mother's history, do you think perhaps I would best have this mole removed?—B. L. B.

Not in view of your mother's history but because of the fact that a mole that begins to show signs of inflammation is significant of possible cancer, I certainly recommend prompt action. The mass of evidence is against cancer being either contagious or hereditary, but we can take no chances with a growth that seems to show signs of malignancy.

USE ELECTRIC NEEDLE FOR WARTS ON FACE.

Can you tell me if there is any simple means of removing warts and moles from the face with safety? If not, will the electric needle do it?—S. S.

I would not attempt to remove any growth on the face by use of a caustic or chemical. There is too much risk. The electric needle will do the work with safety and very little pain.

ANTI-TOXIN PROTECTION.

Our child was treated with toxinanti-toxin about two years ago so as to make her safe from having diphtheria. How long does this protection last?—
K. M.

It is not possible to lay down any definite rule and I doubt if it ever will be, because children differ as to the degree of their susceptibility. Toxinantitoxin is making a very good record but it is still on trial so far as this feature is concerned. Your doctor can give a simple test that will show if the child is still immune to diphtheria. My own oninion is that in the average case the protection lasts much longer than two years.

NOT CAPABLE OF BEARING CHIL-DREN.

My daughter has had an operation and had both ovary tubes removed. I would like to know if this would hinder her from having children, as she is young and would like children.—Mrs. M. C.

If both of the fallopian tubes are removed she will not have children. The fallopian tube is necessary in the passage of the egg from ovary to the uterus.

EAR TROUBLE-DIGESTION.

I have ringing in my ears all the time, but worse at times. I want to know what causes it. And what is best to do for it? I am also troubled with indigestion.—J. F. B.

The ringing in the ears is probably due to middle ear disease. It is very stubborn to treatment, and it is best to consult an ear specialist. There are very many different forms of indigestion. The only rule that fits every one of these is to eat slowly and masticate thoroughly.

SHOULD ENLARGED TONSILS BE REMOVED?

Do you advise having enlarged tonsils removed? Would a child with en-larged tonsils be apt to have diph-theria for that reason? Would enlarg-ed tonsils bring on bronchial catarrh? -M. C. W.

I do not believe that tonsils always need removal because of enlargement. It depends upon the degree in which it exists. If diseased, however, as most enlarged tonsils are, they should be removed, and this quite regardless of their size. Bad tensils always add to the risk in diphtheria. Bronchial catarrh might come as a sequel to enlarged tonsils, but not necessarily.



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