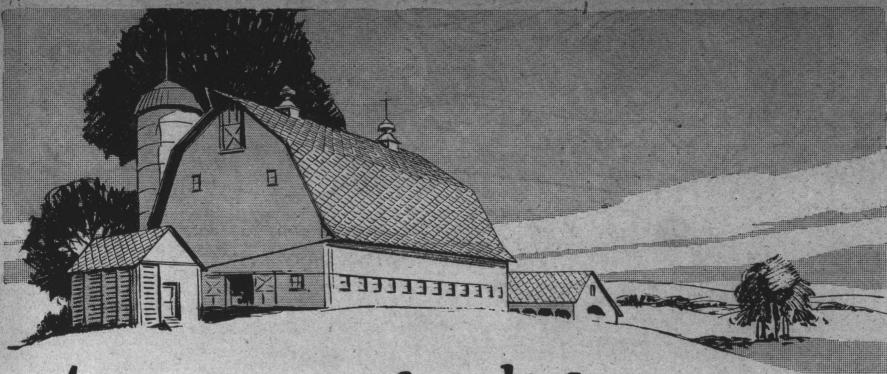


VOL. CLX. No. 7 Whole Number 4240 DETROIT, MICH., SATURDAY, FEBRUARY 17, 1923.

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4 better roof at ½ less cost

F you are putting money into roofing of any kind, the chances are you're looking sharp for three things—sturdy year-after-year endurance, good appearance, and the lowest possible cost.

Exactly these requirements are met by the new Lok-Top Asphalt Shingle, a unique and distinctly improved form of slate-surfaced shingle.

Endurance built in

YOU can judge its endurance, first, by the exceptional materials in it. Lok-Top Shingles are built of heavy Richardson felt impregnated with the highest grade asphalt, and surfaced under pressure with beautiful jade green, tilered, or black pearls late flakes.

This sturdy shingle is on all four corners held fast to the roof by reinforced zinc Loks that cannot rust, corrode or streak. These are the patented Lok-Tops. As the illustration shows, they bind the shingles into a solid mass which seals in the warmth and locks out the cold.

Beauty and economy combined IN addition to its durability—think

of the beauty in the diamond pattern and rare colors of Lok-Top Asphalt Shingles! It makes no difference whether you lay them on a new roof or over a worn-out one, the neat, trim appearance is there just the same.

But the final point will please you most—Lok-Top Asphalt Shingles save you money. For they secure a greater efficiency from the materials used than any other type of shingle.

For example, in the $13\frac{1}{3}$ " x $13\frac{1}{3}$ " size 40% fewer shingles and 70% fewer nails are needed to cover a given roofing area than with standard shingles. Consequently, you save from 30% to 40% in the cost of the completed job.

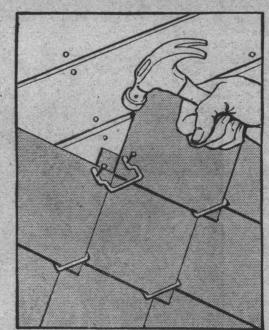
And if you lay the shingles yourself, as it is very easy to do, you pay only half as much as for a roof or standard shingles.

Test the facts yourself

THE three things you should look for in roofing—endurance, beauty, economy-are all combined in the Lok-Top Asphalt Shingle.

It will pay you to learn more of this unique product. Consult your dealer at the first opportunity. Meanwhile send for further information on

the Lok-Top Shingle, and for the valuable roofing facts contained in our booklet, "Roofing on the Farm." Just use the coupon below.



IN laying Lok-Top Asphalt Shingles, there's no chance to go wrong. Each shingle is marked to fit automatically into its proper place. And remember this exclusive feature—Loks and nails

For every roofing need there is a Richardson product. Especially good for many types of farm buildings is Rubbertex Roll Roofing with Pyramid Kaps. You should also know about the new Richardson Super-Giant Shingle. Consult your dealer. If he cannot supply you, write us direct.

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DEVOTED TO MICHIGAN

VOLUME CLX.



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

QUALITY RELIABILITY SERVICE

NUMBER SEVEN

Learning to Shoot a Ditch

Michigan Farmers Find Real Sport in Draining Land by the Rapid Method

By A. J. McAdams

ITCHING with the use of dynamite was demonstrated to a large number of farmers of Michigan Agricultural College covered the blasting with dynamite. Upper and Lower Peninsula. Since

relative to ditching. It is almost impossible to lay down

any set rule in blasting ditches with dynamite because of so many absolutely different conditions. In stump blasting every stump presents its own particular problem and the same is true of ditch blasting. In localities where one method of loading does good work, the same method may not apply in another section of the same region. The general system of loading is the same for all ditches but the spacing between holes and the distance apart of the charges will vary according to the soil, moisture content, and amount of growth on the surface.

From the work done on the train the farmers were unanimously in favor of obtaining them at a prohibitive cost. ditching with dynamite. The big additches was the speed with which the . long period of time is eliminated and of the work done by this method is enables the farmer to do the work with the labor at hand. A farmer with would take the same two men a much longer time to do the work by hand or with a team. The worse the condition the greater the advantage of the blasting method. Stumps, stones or trees are no impediment. The one notable feature of blasted ditches is the absence of dirt along the banks, all the dirt being scattered over the adjoining land, leaving the banks level, which adds to the appearance of the ditch as well as to the effectiveness. The speed with which the work can be carried together with the fact that the



Brush and Shrubs Are No Hindrance.

igan for the first time when the land work can be done at any time of the ty per cent straight nitroglycerin dy from a piece of inch and a quarter clearing short-course train of the Mich- year are the big advantages of ditch namite should be used for this type of

There is no phase of agricultural that time interest in ditching with ex- blasting more modified by a variation ciently accomplished when the soil is plosives has advanced to a point where in soil conditions than ditch blasting. moist or wet. This is because wet or considerable work will be done on this The character and moisture content of moist soils have a greater tendency to cent of the farmers attending the ining factors, and before any attempt large pieces, thereby giving a cleaner schools conducted last spring and fall is made, a man should give careful and better ditch. Practically all the with dynamite is being manifested by ditch. If the soil and moisture are not freezing which enables the blaster to the number of inquiries received by L. dealt with properly, failure is apt to use it at any time of the year most F. Livingston, land-clearing specialist, be met with at the beginning, either convenient for him. Moderate temper-

blasting.

Ditch blasting is always most effiline next year. Over seventy-five per the soil may be said to be the determ- hold together and the blast throws out had never witnessed any work of this consideration to the conditions of the straight nitroglycerin dynamite on the kind. The success of the work done soil through which he would blast a market at the present time is low.

through obtaining no results at all or ture is an advantage but is not now

Shooting a Ditch is an Economical Way of Getting Rid of Surface Water.

Just how important the water con- past. vantage that they saw in dynamiting tent of the soil may be will be seen when one realizes that the continuous ground could be covered. The neces- or propagated method of blasting is sity for hiring a crew of men for a used most commonly and the success entirely dependent upon the water con tent. By the continuous or propagated one helper can blast from twenty-five method is meant the placing of a row to thirty-five rods a day, while it of dynamite charges in the ground at certain intervals and priming the center charges with a cap and fuse or electricity. Center charge exploding sets off those nearest and so on down the line. The water in the ground acts as a transmitter of shock and sets of the soil will determine the distance apart of the charges for effective work. In using this method it can be readily seen that a careful determinaholes fill half full of water the condi-

received letters stating that the prop- good drainage. agating method was not successful unwith this method. Only a fifty or six- straighter ditch after the blast.

essential, as has been the case in the

After the soil conditions have been accurately determined the loading for the ditch is practically the same under all conditions and is modified only by the width and depth of the ditch desired. The following procedure will enable a farmer to blast a ditch in a comparatively short time and with considerable less labor than any other

First, determine the course of the proposed ditch, remembering that the fewest turns in the course will permit the finished ditch to carry away the water quicker and prevent the accumthe charges. The amount of water in ulation of debris that will sooner or later necessitate "cleaning out" the ditch. Very often we find farmers who are putting in a ditch and when the ditch is finished they have no clear tion of the moisture content is essen- outlet. The outlet is as important as tial for successful work. If the bore the ditch itself. If the outlet becomes blocked or is not clear, the speed of tions are satisfactory. This method the current is lessened which causes will, many times work in very damp the water to drop its load and gradually fill the ditch. Where there is only The kind and per cent of dynamite a small fall in the area to be drained use for this type of work is also very it is particularly desirable to have the important. In the past this office has difch as straight as possible to insure

When the course of the ditch is deder wet conditions. Upon investiga- termined it is well to place long tion it was found that the farmer was stakes that can be seen over the grass using a twenty or forty per cent or brush about fifty or one hundred stumping dynamite with the propagat- feet apart, along the center of the ing method. This type of dynamite is ditch course. These can be ranged not adaptable to propagated ditch in by sighting from the outlet to the blasting because they are far too in starting point. Some prefer to stretch sensitive to be set off by the shock of a string or cord between two stakes the center charge. In other words, so that they may get the "bore holes" they do not contain a sufficient for the loads of dynamite as straight amount of nitroglycerin to be used as possible, thereby assuring a much

"Bore holes" are usually made the easiest with some kind of a punch bar. A very simple punch bar can be made pipe about three feet long, with a sixinch tapered point welded on one end and a tee with two twelve-inch nipples for handles screwed on the other end. However, a driving iron or crowbar can be used, the selection of the tool being a matter of the farmer's decision. In is certain that properly made holes are essential to successful ditch blasts and many failures along with a lot of wasted dynamite can be laid to poorly made holes.

When the depth of ditch is decided upon, the "bore holes" should be placed within six inches of the desired depth in soils which are very wet. Where the soils are damp the "bore holes" should be nearer the desired depth. In any case the depth of the holes should be as uniform as possible. In cases where the bottom of the hole is not solid the charges can easily be placed at a uniform depth by marking the tamping stick. Where water does not fill the holes completely it is well to tamp in a little dirt to make it as tight as possible. If water fills the hole stamp over the hole with the boot to make certain the hole is closed. Under a very large number of conditions tamping decides the failure or success in ditch blasting.

Spacing of holes, depths of holes and loads vary with the soil conditions. No general statement or table covering this information can be given. The man doing the work can best decide the facts by making a short test shot. A test shot is made by loading ten holes spaced at eighteen or twenty inches and at the depth desired. The results of this shot will promptly indicate whether he should change the distance between the holes or change the load. If the bottom of the ditch is at the right depth but has a "wavy" coutour the chances are the loads are correct but the holes are too far apart. If the ditch is deeper than desired and well cleaned the spacing can be increased slightly and holes not made so deep. By making test shots and noting soil and moisture conditions a farmer can readily determine the correct loading to get the best results. After the test shots have determined the load, then five or six rods can be loaded and fired with cap and fuse or electricity. To shoot more is danger-(Continued on page 222).



A Dynamited Ditch at Otsego Lake,



Published Weekly *Established 1843 Copyright 1923 The Lawrence Publishing Co. Editors and Proprietors

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TERMS OF SUBSCRIPTION
 One Year, 52 issues
 \$1.00

 Three Years, 166 issues
 \$2.00

 Five Years, 260 issues
 \$3.00

 All Sent Postpaid
 Canadian subscription 50c a year extra for postage

RATES OF ADVERTISING 55 cents per line agate type measurement, or \$7.70 per inch (14 agate lines per inch) per insertion. No adver-Entered as Second Class Matter at the Post Office at Detroit, Michigan. Under the Act of March 3, 1879, tissement inserted for less than \$1.65 each insertion. No objectionable advertisements inserted at any time.

Member Audit Bureau of Circulation

VOI.UME CLX

NUMBER SEVEN

DETROIT, FEBRUARY 17, 1923

CURRENT COMMENT

THE MICHIGAN FARMER SAYS:

Good judgmen, so one of the essentials of good farming.

Our biggest tax is the one we pay for not doing the best we can.

The man who always takes time to say what he thinks, doesn't have time to think much.

Tinkering time is here. An hour now is not as valuable as minutes will be later on. Save valuable minutes by getting things fixed up now.

bewailing conditions, which had better be used to improve them by starting on ourselves.

We do not do justice to good seed when we put it in poor ground, nor to good ground when we put in it poor seed.

Adding to the Load

A N old-time ped-dler with a pack on his back, asked a farmer for a lift. As the peddler took a place in the seat be-

side the farmer, he remarked that he would keep the pack on his back so as not to burden the team with this additional load.

The provisions of three railroad bills recently introduced into our statelegislature remind us a great deal of this old peddler. We are pleading for lower transportation rates, yet these bills would increase the cost of rendering transportation service. It is estimated that what is known as the "Full Crew Bill" would add one and a half million dollars to the annual expense of conducting the railroad busi- time. This year he becomes permamess here in the state. Other bills nent owner of the state championship would add even greater amounts to the transportation costs.

True, these bills are offered in the interest of safety. We believe with ceed and kept on succeeding. all our heart in providing safety devices. But experts tell us that the pro- in our weekly boys' and girls' contests. visions of the "Full Crew Bill" in par- When the girl or boy once wins the would have attended had the roads pussy is got a tail, I'll be yours withticular would divide responsibility and knowledge of knowing how to succeed been passable, and had they not been out fail." I'm sure if old Doc. or the thereby increase the hazard of rail- is gained, and it seems much easier to entertaining a cold in one of its varroading to the employes and to the get up a winning paper the next time. ious forms. These things kept the public rather than diminish them.

thoughtfully considered by every per- we succeed we know how to succeed held, the Michigan Farmers' Week way love is. son who depends upon railroads, and and if we want to continue in the holds the record for attendance this that includes every last one of us: good work each little improvement ad-year. Minnesota and Illinois had only Bucklin's kid put that love message Eventually this added cost will have ded to what we already know counts 800; Iowa, 1,500, and Indiana only o' mine in the mail box. Jack's one to be paid by the producer and the for a lot. consumer. This is as certain and as

to pull the entire load.

Ton-Litter Contest MICHIGAN is to have a ton-litter contest. It's a new thing. It consists simply in a race to see who can make the

most pork from one litter of pigs in six months time. All who succeed in reaching the ton mark with their litter can qualify for membership in the "Ton Litter Club." All breeds are allowed to compete and the contest is open to any resident of Michigan.

All the swine breeders' associations of the state are behind the movement and the working out of the details are in the hands of the Live Stock Extension Department of the Michigan Agricultural College. It is a sure go, and of the well-to-do. Some of the most it promises a lot of enthusiasm, some satisfying experiences in life, says he, valuable hog feeding information and a sure profit.

All you interested hog fans who think you own the best breed of hogs in existence, and the best individuals in that breed, take notice. Here is your big opportunity to coach along the old sow, tune up that prospective litter, limber up your own ingenuity and show the world. Watch the columns of the Michigan Farmer for any further news and information along this line.

Must Go All the Way

In growing crops there are limiting rybody gets big wages. It is a human failing to spend time factors. Good seeds are necessary, but of pre-digested plant food alone will not give a maximum crop. A fine, wellcompacted seed-bed is necessary, but such a seed-bed alone will not give a bumper crop. And so on with all the ing to maturity of a crop that is worth

> Now, the point is this: Unless we are willing and able to go the whole distance and provide all the factors required in the growing of a maximum crop, or in the developing and fitting of stock, then it is better that we go to work on the road, accept the presidency of some bank, or run on the free-for-all ticket at the coming elec-

Getting the Success Habit

THE other day we got word that a fifteen year old lad won the corn king championship of Kentucky for the third

cup, and besides raised 125 bushels of corn on an acre which is valued at \$188.85. He had learned how to suc-

This same success factor is noticed

Then again, this point should be habit, the same as other things. After But as it is, among all the round-ups

and the Persians. We should not ages. But the earlier in life one gets mended for the week's success, for it is the right way to do things and gives ing together. the opportunity of winning out.

is at least partly responsible for the truth of the biblical expression, which and he that hath not shall have taken

Farmers Hard Up?

A RICH man in a public way recently enumerated comforts, and satisfactions of

are the purely physical joys of eating when you are hungry, and resting when you are tired.

Note that in order to get the most out of these homely joy givers we must become hungry and tired, and here is where the farmer shines all right. He doesn't have to starve himself for twenty-four hours in order to work up a good appetite, nor knock the baby's little rubber ball all over an eighty-acre lot with a stick in order to get tired enough to rest.

The farmer has real food to eat, too, and he has it fresh. The city man THE Good Book takes what is left, and in the best tells us that, if shape he can get it, if he has the monwe transgress the law ey to pay for it. If he does not have in part, we are guilty the money he goes without, and there of all. This advice are plenty of them going without. You can be carried over can find many able-bodied men beginto the farming business to the ad- ging for a bite to eat, on the streets vantage of the man who tills the land. of Detroit, today, where they say eve-

These highly paid men whom we good seeds alone will not give a maxi- hear so much about, are not so well mum crop. Plenty of available plant off as it may appear. It takes real food is necessary, but an abundance money to live where there is so much competition for the necessities of life. Get out your pencil and figure how many dollars' worth you ate today, based on prices the city man pays if he gets it served as fresh and as well various factors required for the bring- prepared as you do. Here is the schedule: Three buckwheat cakes, 20c; two eggs, 20c; two mouthfuls of sausage, 40c; one cup of coffee, tea or milk, 10c; dish of cereal, 15c; fruit, 20c. If you want a se cond helping, double the price. Beefsteak, \$1.25; one-fourth of three-pound chicken, 65c; potatoes, 15c; two slices of bread, 10c; vegetables, canned, 10c; fresh vegetables, 20c; celery or pickles, 20c; cake, 20c; hot mince pie, 15c per cut.

Now, be honest. Figure it for the family for the day, and for the week. Don't tell your wife if you don't think best. She might want to collect.

Now, take inventory of the solid comfort you get when you pull the old rocking-chair up to the fire, after the day is done, and see if you don't feel like one of the world's most favored citizens, after all.

· Farmers' Week at Home HERE were over four thousand

It seems that success gets to be a crowd from equaling that of last year.

unalterable as the laws of the Medes similar examples among people of all farmers of the state are to be com- tashuns.

"kid" ourselves by strapping these ad- it the better. For this reason alone, an indication of progressiveness on ditional costs on the back of the rail- the boys' and girls' club work is of the part of both. It also shows that road. Ultimately, our team would have great value. It teaches early in life the college and the farmers are work,

These four thousand enjoyed a men-Perhaps some of us are too old to tal feast which for its main course, take on new habits but we should at had facts and inspiration served by least do our very best to help our leading agricultural thinkers. The desyoung folks to learn to succeed in the sert was the association or contact little as well as the big things of life. with other folks. This is always an May it not be that the success habit interesting and delightful part of such gatherings.

However, there were over ninety says: "He that hath shall receive, thousand farmers who could not attend. To these and to those who did from him that which he already has." attend, but could not possibly take in all the good things which were going on at once, we offer in our columns the "meat and potatoes" course of the "feast." This is theirs to enjoy by the some of the greater fireside regardless of weather, roads, pleasures or physical condition.

Valentines

ON Valentine Day, the internashunal sweetheart day, I got one of them beautiful love sentiments what showed a big fat man with a big red nose, sleeping under a hard cider apple tree in broad daylight with a water jug named Whiskey beside him. There was a big mosquito on the red nose drillin' a well tryin' to tap one of his alkihaulic veins.

The poetickle inspirashun under this work of art was:

When in sweet repose On your nose Is a Mosquito Gettin' drunk on you.

Now, this love message shows a true knowledge of my habits of repose, but



it ain't acquainted with my drinkin' habits, or my complexshun. My nose ain't red, so it ain't rarified from its ability to inhale alkihaulic fumes. I think alkihaul is

serve fruit in and to put into radiators but for preservin' humans it ain't no good. This young lady has got me wrong, that's all.

Valentine Day is sometimes the startin' of interesting complicashuns. For inst., Doc. Hudson has got a valentine what showed him like a old Doc. Sawbones what was shakin' hands with a skeleton. And Squire Dean got one what showed him like a dried-up old skin-flint, what got poor from the money he was carryin' around.

Now, Old Doc just knows the Squire sent him that nice love message, and the Squire is sure the Doc sent him what you call that platonic inspirashun. And there's been a family feud since. And it's all 'cause the Squire won't pay the Doc. for the time he called Doc, but got well before Doc. got there. Now, that ain't Doc's fault, 'cause he couldn't help it 'cause the Squire got well so quick. If he got there in time he sure woulda seen that the Squire wouldn't a got well so soon.

But bein' it as it is, the Squire's people in attendance daughter an' Doc's son is exchangin' at Farmers' Week at some of them epistles what is made of the College a short lace and hearts and flowers which has time ago. Many more got such things like "As long as the Squire see such things, they'd go out and cut off the pussy's tail. But then. love would say, "Poor, Poor Pussy," and keep right on a goin'. That's the

Sammy just told me he saw Jack for a lot.

We have but to look about us to see The college management and the why he is sendin' me such nice feliciof Sophie's old sparks. Maybe that's HY SYCKLE.

There Are No Farm Cure-alls

Speakers at Farmers' Week Say Many Factors Enter Into Improvement of Agricultural Conditions

APPINESS is in here, not out opening address, "A Policy for the Ag- al increase will find its way to the sult from the spread of cooperative there!" That was the philosophy riculture of State and Nation," delivities, he predicted. A slight increase movement's, Farmers should cooperate, of an old cobbler who for long years had been shut away from the world in his little shoe repair shop off a side street in New York City, and that was the reply he gave to Sydney Anderson, congressman from Minnebustle of the world.

Week visitors in the M. A. C. gymna-

Anderson, as he tapped his chest. "Naproblems multiplied. We must have proper relations with each other and each must do his part."

The tall congressman from Minnesota was not the only Farmers' Week speaker who made it clear that there is no panacea for the farmer's ills. President David Friday, of M. A. C.; Samuel O. Dunn, editor of the Railway Age; Prof. G. F. Warren, of Cornell University, and Eugene Davenport, formerly dean of agriculture at the University of Illinois, were equally emphatic in their warnings. They agreed that there is a way out for the farmer, but they were also agreed that merely increasing credit facilities or lowering transportation rates will not turn the

Perhaps the most encouraging statement made by President Friday in his

products to other prices will be about population. what it was in 1913. This change will Anderson, in addressing Farmers' fall and bring down with them other there has been much organization of sium on Thursday evening, February 1. ucts will be further reduced by the come a set of leaders who will blaze independent economically as well. "The solution of our problems is in competition of European goods which the way to this new culture. here,' not 'out there,' "declared Mr. is in prospect.

The importance of studying the studying the

tional problems are only individual pects the population of the farms to by President Friday, but he made no ren, of the economics department of remain almost stationary. Any natur- claim that Utopian conditions will re-

President Friday said that he ex- and market processes was emphasized.

ered Monday night, January 29, was in agricultural production from year not merely to secure a cent or two the prediction that within fifteen to year may be looked for, but this more per pound for their product or months the relation of prices of farm will be offset by the increase in urban to eliminate the middleman, but to gain valuable information about the The chief problem is in keeping the market so that they may adjust their come about, he said, through the low- right sort of people on the farm, as- production to the particular demands sota, when asked if he didn't miss the ering of the prices of the commodities serted President Friday. To this end of consumers. Michigan farmers, bethat farmers have to buy. Agricultural he would develop a culture particu- cause of the great increase of urban That also must be the philosophy of prices are due to remain somewhere larly adapted to the rural community, population in recent years, have an the farmer if he is to extricate himself near their present level, but wages the characteristics of which would be unusual opportunity to take advantage from his present difficulties, said Mr. of workmen in the cities are likely to repose and dignity. In recent years of the home market. By making themselves independent of the internationprices. Prices of manufactured prod- farm interests and out of it all may all market they will make themselves

> The predictions made by President The importance of studying markets Friday regarding future price trends were corroborated by Prof. G. F. War-Cornell University, who spoke Wednesday afternoon, January 31. Prof. Warren exhibited charts showing the relation of agricultural prices to other prices during the Civil War. He predicted that the coming period of low prices for manufactured products will continue for probably fifteen years.

Samuel O. Dunn, editor of the Railway Age, presented a side of the transportation question which ordinarily is not brought to the attention of farmers. He described the difficulties of the railroads in keeping themselves financially solvent during the unfavorable conditions in recent years and pointed out that unless an adequate return is made possible the railroads will not be able to serve farmers or the country at large at all.

(Continued on page 218).



Both Summer and Winter Get-together Meetings Are Valuable.

Farm Bureau Stronger than Ever

How a Safe and Sane Program Worked, is Told at Annual Meeting

Michigan State Farm Bureau, well. the annual business meeting held at faction with the accomplishments of iness organization of the farmers.

How the farm bureau found new ways to be of service to its members during the year of 1922 was outlined by Clark L. Brody, secretary and manclared the bureau is now stronger than reau and the advent of W. E. Phillips, ley was the only new man elected to the markets department. ever before. Its deficit of \$15,215 of two years ago has become today a net worth, not including membership fees, \$174,893.41. Its increased efficiency has been attended by almost continual reduction in overhead expenses from approximately \$200,000 per annum to \$77,108.76.

The program for 1923, as outlined by Mr. Brody, calls for continued improvement of the farm bureau business departments, the development of the Michigan Farm Bureau News and other publicity channels, the construction of a first-class traffic department, the extension of local and county organization activities, promotion of a closer relationship of affiliated exchanges, continuation of second membership drive, completion of collection work in the remaining thirty counties. the reduction of operating expenses in every possible way consistent with efficient service and the securing of leg-

builded well."

terized by complete harmony. Dele- depression, and the unflinching loyalty as treasurer. The board of directors Producers' Association. gates in attendance expressed satis- of its members and local leaders has now stands as follows: Fred Smith, enabled it to stand the test. The of Elk Rapids, for Michigan Potato permanently as the representative bus- ning are now burning down to the Stock Exchange; Verne Gormley, of low in a condensed form. coals of real service and permanency. Newberry, for the Upper Peninsula;

WHATEVER grievances may be islation of vital interest, not only to of Decatur, who has represented the the board. He will look after the parheld by individuals against the farmers but to the whole nation as Michigan Elevator Exchange on the ticular interests of that part of Michboard of directors, in his place. M. L. igan north of the Straits. President Mr. Brody concluded his report with Noon was re-elected as vice-president, Phillips will continue to represent the M. A. C. on February 1-2, in connecthese words: "The farm bureau has Mr. Brody as secretary-manager, and Elevator Exchange, and Vice-president tion with Farmers' Week, was charac- been tempered in the fires of business Fred Van Norsdall, of Three Rivers, Noon will represent the Michigan Milk

Farm Bureau Resolutions.

The Michigan State Farm Bureau at the farm bureau during the last year flames of enthusiasm that character- Growers' Exchange; Elmer A. Beamer, their annual meeting February 1-2, and confidence that it will continue ized the big organization in the begin- of Blissfield, for the Michigan Live passed resolutions which are given be-

1. Publicly recognized the service Truly the farmers of Michigan have E. C. McCarty, of Bad Axe, Mrs. Edith rendered by Mr. Hale Tennant, direct-L. Whitney Watkins, of Manchester, or of marketing at M. A. C., and re-The meeting at M. A. C. marked the M. Wagar, of Carleton, George Friday, quested President Friday and the passing of James Nicol, of South Hav- of Coloma, and M. B. McPherson, of State Board of Agriculture to provide ager, in his annual report, and he de- en, as president of the State Farm Bu- Lowell, directors at large. Mr. Gorm- every facility for the development of

> Farm Bureau Traffic Department petitioned the Interstate Commerce Commission for special consideration with respect to the inability of Michigan railroads to seemingly move the 1922 potato crop. Such petitions request an emergency order for immediate relief of the Michigan potato

> 3. Endorsed the boys' and girls' club work and recommended it to the several county farm bureaus for their consideration.

> 4. Opposed the proposed statute that eastern standard be made the standard time for Michigan.

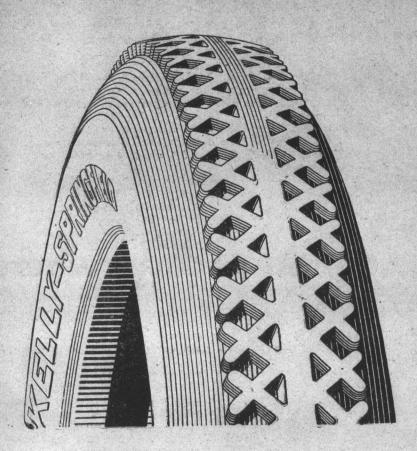
> 5. That the Farm Bureau Traffic Department work to establish a feeding in transit rate east of Chicago.

> 6. Favored the enactment by the present session of the legislature for adequate measures for the expansion of the work of bovine tuberculosis

(Continued on page 220).



Timber Conservation Received Consideration in Farm Bureau Resolutions.



WHEN a tire fails to give satisfactory mileage it may be the fault of the rough country roads, but it is more likely to be the fault of the tire itself.

Good tires will give more service on poor roads than poor tires will on good ones.

Kelly-Springfield tires are built to give service. For over a quarter of a century they have been famous for their high quality.

The Kant-Slip Cord, the newest member of the Kelly family, not only gives long mileage on rough roads but is a wonderful non-skid tire on smooth ones. It is the longest-wearing tire Kelly has ever built and the safest tire anyone has ever built.

Kellys used to cost more than other tires, but now that the huge new Kelly-Springfield plant has been completed and production greatly increased,

It costs no more to buy a Kelly

Senator Capper's Washington Letter

HE approval of the agreement tonnage decreased 400,000 tons, and Britain's debt to American tax- creased 200,000 tons. payers will be paid at the approxi-

squarely up to the senate.

President Harding, in a personal ernmental operation. message to congress appealed for approval. The house has done so.

American debt funding commission the President truly said the agreement "is a business settlement fully preserving the integrity of the obligations."

He added that it is the first great, step in the readjustment of the inter- er's dollar continues to decline. governmental obligations growing out

It is all of this and more. It repreward the restoration of world economic conditions.

The terms will not mean any eventual loss to the United States, authorities predict. Not only will the books be balanced in the end, but immediate prospects are offered for a reduction in taxation.

the British bonds deposited with the er, as compared with pre-war levels. United States treasury the debt can Fifty cents, most farmers think, comes be forgotten and attention turned to nearer being right. the ways of peace. The importance of this can not be minimized.

President Can't Help the Subsidy.

The President erred, however, when he coupled a final appeal for the ship subsidy bill along with the request for approval of the debt agreement. They are not related.

The subsidy is "dead" and no amount of presidential persuasion can this measure is in the best interests of to give him relief. the American taxpayers.

Mr. Harding pleads for a "decision," but as a matter of fact the "decision" structive laws which unquestionably has already been given. Refusal of the senate to permit the ship subsidy bill to delay passage of vital appropriation bills for the conduct of the government was the "decision."

In this connection the department of commerce announces that during 1922 British shipping on the high seas increased 951,000 tons, French increased 355,000 tons, Italian increased 113,000 tons, but American Shipping Board

whereby \$4,604,128,085.74 of Great privately owned American tonnage de-

These figures show that the Amerimate rate of \$150,000,000 a year is now can flag is disappearing from the high seas, despite a liberal policy of gov-

There is no assurance that the subsidy bill will restore the flag to the Quoting from the report of the seas-but there is assurance that the subsidy will add to the already high cost of government.

Dollar Values Decline.

The purchasing power of the farm-

The department of agriculture reports that "although agriculture, from a financial standpoint is getting better, sents a great forward movement to the farmer's dollar opened the new year with a purchasing power equal to only sixty-eight cents before the

> In other words, while the goods he sells have steadily declined in price the goods he buys have steadily increased.

Many farmers think their dollar has Once the agreement is approved and not a sixty-eight-cent purchasing pow-

Regardless of the exact figure the difference is there. It is an uneconomic, unhealthy and an unfair arrangement which some day may kill the goose which lays the golden egg.

Commodity prices either must tumble or farm prices must soar. An even balance must be found.

Some Relief in Sight.

The senate recognizing the economconvince senators that enactment of ic plight of the farmer has taken steps

The Capper rural credits bill and the Lenroot-Anderson measure, both conwill help toward relieving conditions, have passed the senate and are now awaiting action in the house.

March fourth approaches. Unless in the meantime the Capper and Lenroot-Anderson bills have crossed all legis-

Capital Comment

By Our Lansing Correspondent

RACTICE gained in making cam- garded as quite evenly divided over paign speeches is made evident by this issue. the eloquent debates staged on the floor of the house during the past

tees and debate is usually very limited. For instance, when the bill to re- amount of state reward was also repeal the 1921 law providing for the ported favorably. annual gathering of crop acreage and live stock figures by the supervisor ame up for final passage in the senate, there was no word of discussion scheduled to pass the house soon. or debate and every member present answered "aye."

been made that it will not get out of quiring honest labeling. the agricultural committee without a

TB. Program Gets O. K.

Prospects are good for legislative week. Marriage laws, school bonds, support of the five-year program for government operation of coal mines, the eradication of bovine tuberculosis and the eight-hour day were topics in Michigan. The house committee on which provoked prolonged and heated agriculture reported favorably the \$200,000 emergency appropriation to In the senate, things are different, pay accumulated claims and finance Most of the work is done in commit- the campaign for the rest of the fiscal year. The bill to slightly reduce the

Dairy Interests to be Protected.

No apparent opposition to the anti "filled milk" bill has developed. It is

Senator Norman B. Horton, of Fruit Ridge, aims to restore the confidence This repeal proposal will be accord- of the buying public in Michigan ed a very different reception in the cheese by establishing a definite standhouse, however. Announcement has ard of fat and moisture content and re-

Amendment of the Michigan quarhearing from the farm organizations antine regulations for sheep to allow and the State Department of Agricul- feeder sheep and lambs to be brought ture and other interested parties and into the state without dipping is proif it is reported on the floor of the posed by Representative Edward G. house, a lively battle is promised for Read, or Richland, who is one of Michsentiment among the members is re- igan's largest sheep feeders.

Marketing Certified Seed

Discussed by Crop Improvement Association By H. C. Rather

the Michigan Crop Improvement Asso- tion of destructive molds. ciation when he stated that its mem- Certified Seed Produces Higher Yields. bers had always held and must con- H. C. Rather, secretary of the assotinue to hold, a real pride in putting ciation, outlined the estate of the avout a quality product. "The Associa- erage association seed producer as tion," said Mr. Watkins, "is the back- compared to the average Michigan bone of successful crop development farmer. The average oat yield within in Michigan. Its work proves or dis- the association was 47.5 bushels, as proves the value of new varieties as compared to thirty-three bushels on they are released by the Michigan Ag- the average Michigan farm, giving the ricultural College. It makes of prac-user of certified seed an added income tical benefit the work of breeding up of \$5.80 per acre of oats at present

HILE the Wednesday session of market quality. He urged a wider use the twelfth annual meeting was of certified seed potatoes to improve devoted to a discussion of prob- quality and get away from diseased lems of production, the Thursday meet- stock, a thorough spraying program to ing was devoted to a program dealing prevent the ravages of insects, more with the marketing of certified seeds. careful grading in the field to elimi-L. Whitney Watkins, of Manchester, nate over-sized and poorly shaped pothe association president, sounded the tatoes and better storage and ventilakeynote of the remarkable success of tion to prevent loss from the forma-



Careful Seed Selection Bring Ample Returns in the Harvest.

those varieties because, by association prices, even though none of the grain growers the seed is kept to the stand- was sold at seed prices. In barley, ards of purity and quality which will certified seed growers averaged nearly perpetuate the good characteristics fifteen bushels more than the state brought out by the plant breeders and barley average, while in beans the Robring the productive benefits of such bust variety within the association, seed to widest use on Michigan produced eleven bushels per acre more farms."

The Advantages of Seed Pools.

J. W. Nicolson, manager of the seed department of the Michigan State The secretary's report brought out tion, such organizations assisting both ards for certified seed be maintained. in and out-of-state distribution. The The association in its business sesof this work widening greatly the mar- purchasing department in this regard. ket for Michigan certified seeds.

Standards Must be Maintained.

G. W. Putnam, superintendent of in- the association to that fund. spections in the association, outlined the standards which must be maintain- Officers elected for the ensuing year and registered seed, the lots set aside ors, Garfield Farley, of Albion; Ralph for distribution within the association, Arbogast, of Union City; F. F. Coras being most desirable for parent nair, of Chesaning; E. C. McCarty, of stock for further seed production pur- Bad Axe; W. R. Kirk, of Fairgrove,

cialist, told of his recent visit to po- Putnam, superintendent of inspection; tato marketing centers where he J. F. Cox, professor of farm crops at found a very keen producers' competi- M. A. C.; F. A. Spragg, plant breeder tion with Michigan potatoes selling at at M. A. C., and J. W. Nicolson, mana discount because of poor grading at ager of the farm bureau seed depart-

in 1922 than the state bean average for that season.

Secretary's Report.

Farm Bureau, outlined some of the that there were certified in Michigan problems in connection with selling of during the past season 155 acres of certified seed. The limited certified wheat, 716 acres of rye, 137 acres of seed pool used so successfully with barley, 672 acres of oats, fifty-one Rosen rye last fall will again be put acres of soy-beans, 520 acres of beans into operation with Robust beans and and 272 acres of corn. This important the oat varieties this spring. Mr. Nic- acreage of certified seed has been olson emphasized the importance of brought out under an association polthe cooperative organizations in the icy of not how much seed can be certifarm bureau plan of seed dissemina- fied, but how high can Michigan stand-

Michigan State Farm Bureau Seed De- sion took action to investigate the acid partment is now purchasing agent for phosphate prices, A. B. Cook, of Owosthe cooperative seed organizations of so, being appointed chairman of a comfour different states, the performing mittee to confer with the farm bureau

Resolutions adopted favored legis-The Farm Bureau Seed Department lative appropriations to support the plans another year to put in drying building and extension appropriations facilities for seed corn, thus improv- asked for by the Michigan Agricultural ing the service which can be given in College and materially supported the this important line of seed marketing campaign for a Union Memorial Building now being put on by M. A. C. alumni, by a substantial contribution from

The New Officers.

ed if certified seed is to live up to its were: L. Whitney Watkins, of Manmarket reputation. He explained the chester, president; A. B. Cook, Owosdifference between certified seed, the so, vice-president; H. C. Rather, East commercial product of the association, Lansing, secretary-treasurer; directand G. R. Wheeler, of Mt. Pleasant; J. W. Weston, M. A. C. potato spe- Mrs. Catherine Clarke, clerk; G. W. the shipping point and general low ment, sit with the board of directors.



In the 4 places where the strain is hardest

"U. S." reinforcements insure extra wear

Unless a boot is skillfully made, it will give way at the heel-or break at the instep-or sag at the ankle or wear through at the sole-

It's at one of these four places that the strain on a boot is hardest. **

That's why the makers of "U. S." Boots have built a strong system of protection into these points of hardest wear. From 7 to 11 extra layers of fabric and tough rubber reinforce every pair of U. S. Boots at the very places that are generally the "weak spots."

The diagrams below show you just how U. S. Boots are built. Their construction is the result of 75 years of

experience in boot making.

THE ANKLE-An

canized a heavy

side-stay.

and on top of that is vul-

Other "U. S." Footwear-all built for long wear

You'll find every type of rubber footwear in the big U. S. line. There's the U. S. Walrus, the famous allrubber overshoe-the U.S. lace Bootee, a rubber workshoe for spring and fall-U. S. Arctics and Rubbers-

all styles and sizes for the whole family. Look for the "U. S." trademark whenever you buy.

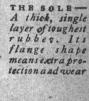
United States Rubber Company



Extra heavy flange sole

duck and rubber.

BACK OF THE HEELpoints of the whole boot — 11 layers of



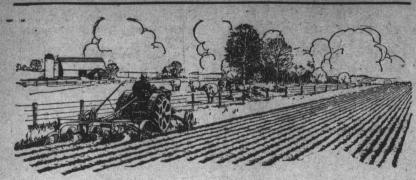
Ask for J.S. Boots

THE INSTEP-A series of

graduated reinforcing layers in the instep, com-bines unusual flexibility

with surprising strength.





Two Ways to Better Profits

A better than average crop every year, from every acre, by better farming and by farming more land with the same help and labor cost—these are sure ways to better profits open today to you and to all farmers who use



With a Case tractor you get all the benefits of more timely work; better and deeper plowing; more intensive tillage; greater farming capacity; less help required; ample power for all drawbar and belt work.

Case tractors are well adapted to all farm work, both traction and belt. They are dependable and durable because:

In Case tractors all gears, bearings and wearing surfaces are enclosed—protected from dust and dirt.

The engine has removable bearing shells and bushings. Practically all other bearings are roller and ball bearings of the highest quality.

Ample power is furnished by Case-

built engines. This power reserve means economy and longer life. built engines.

Power is transmitted to both drive wheels through simple, cut steel spur gears—all completely enclosed.

Belt pulley is mounted on engine crankshaft, and there is no waste of power through gears.

These advantages are enjoyed by thousands of Case tractor owners who find in them, every year, a source of better profit. Write for a copy of the booklet "Better Farming With Better Tractors," and get the whole story.

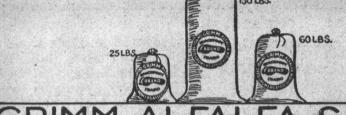
J. I. CASE THRESHING MACHINE COMPANY

Racine

Wisconsin

NOTE: Our plows and harrows are NOT the Case plows and harrows made by the J. I. Case Plow Works Company.

CERTIFIED GUARANTEED GENUINE



Insist on this Brand at Your Dealers

and you can't go wrong. Tell him you want BLACKFOOT BRAND Certified Genuine Grimm Alfalfa Seed in SEALED and LABELED Bags. Grown on registered fields free from adulteration with seed of tate and provision for children under inferior quality, having a purity of 99.50 or better and because it is scarified assures you a very high germination. Requires but about 3/3 as much seed per acre as common. So that you may purchase prac-

tically any amount in the original sealed and labeled until the debts of deceased are paid. package this certified seed is packed in 25, 60 and 150

BLACKFOOT BRAND Genuine Grimm pound bags. Alfalfa Seed can be sure they are

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IDAHO GRIMM GROWERS BLACKFOOT



IN SEALED AND LABELED BAGS

Please Mention Michigan Farmer When Writing To Advertisers

ALTERING HIGHWAYS.

Has the highway department the made the first time. right to move a road so as to damage property?—W. H. K.

Compiled Laws of 1915, Sec. 4288 to 4292, provide that the highway comfeeling aggrieved by his decision may appeal to the town board.-Rood.

WEIGHT OF SILAGE.

Please give me the number of cubic feet in a ton of silage.—C. O.

en. Ensilage ten feet from the top of with the surface soil. the silo will weigh around thirty thirty feet from the top of the silo tilizer per acre when seeding. will weigh approximately fifty-six pounds per cubic foot. The average weight of silage in a thirty-six-foot silo has been found to average 42.8 pounds.

With these figures as a basis, you

were married. The man has a house and lot, also a farm in Kansas, and wants to deed it over to his youngest daughter. Can this be done? The wants to deed it over to his youngest daughter. Can this be done? The woman has property and money and they had had a verbal agreement when married that they would each keep their property for their own children.

—E. R.

verbal agreement. The man can consurvive him .- Rood.

ESTATES.

first marriage and one by second, and leaving property valued at \$3,500, with doctor and funeral expenses. He had borrowed money from two chil-dren of first marriage for benefit of a half-brother who is past twenty-three a half-brother who is past twenty-three years old, and which he promised to pay as soon as he was able to work. Can we hold half-brother for the debt, or was the father to pay? Father left property in joint deed. Can we children come in for our share? Has stepmother got to pay debts? She is selling property and refuses to pay debts. Can we collect money half-brother borrowed from stepmother?—W. H.

Land held in joint name of husband and wife is by entirety and belongs exclusively to the survivor, free from any debts of the deceased. Only parties to the contract may sue on it. After cost of administration and provision for widow during probate of the esten years old, except that the whole estate does not exceed \$150, no further allowance can be made to the widow

RATCHING ALFALFA STAND.

I have a field of alfalfa but a rather should be opened to burn the gases poor stand. It did not get any lime forming over the fuel. The fire should when seed was sown. How would it be to apply lime next spring and a little more seed and drag them in?—

A A.

Snow or rain coming in at the text of

not one has been a success.

best way is to re-plow and re-prepare free from soot.-F. E. Fogle.

the land and sow again. In seeding again, you can avoid all the mistakes

Without doubt the main reasons why failures are recorded with alfalfa is because lime was not applied in the missioner on petition by seven or more proper quantities, or not at all, and freeholders may call a meeting, and there was failure of proper inoculation after hearing lay out, alter, or discon- of the soil. If these two factors in the tinue any highway, and any person growth of alfalfa are properly supplied there is little likelihood of failure.

If you re-plow and re-seed, it is advisable to apply one to two tons of ground limestone per acre; you will be much surer of success if you apply. two tons. Then be sure the ground is properly inoculated. The trouble in The weight of silage varies with the applying lime now is that it on top of depth in the silo from which it is tak- the ground, while it should be mixed

If the land is not fairly fertile, use pounds to the cubic foot. That taken 200 to 300 pounds of commercial fer-

CONTRACTS.

After a contract is signed, can it be changed by mutual consent? If one under your conditions.

DOWER RIGHTS.

A man lost his first wife. They had five children. A neighbor lost her husband, and had four children. They were married. The man has a house and lot, also a farm in the party changes his copy of contract by crossing out or writing in. or both, what effect will it have on one or both contracts? Must the writing on both contracts be exactly alike if they convey the same meaning? Must both parties sign both contracts? Must a contract be stamped? If so, by whom?

—A. R.

Some contracts

in the same terms if there is more than one copy, but this is not fatal if the intention of the parties is discoverable. Land contracts are not binding till signed by the seller, but they do not have to be signed by the buyer. Dower rights cannot be barred by Most contracts do not have to be in writing at all nor signed by either vey to his daughter subject to the pos- party. Alteration by one without the sible dower rights of his wife is she consent of the other, the alteration being material, would render it unenforcible by the party altering it; but alteration by mutual consent would not have that effect. A verbal modifi-My father died, leaving five children cation by mutual consent, if a new contract, and coming within the statute of frauds, requires new re-execution.-Rood.

CHIMNEY LEAKS.

Our chimney was rebuilt two years ago from a foot below the roof. Last year we burned wood and it was O. K. This year we are burning dry wood, and brown juice runs out of pipe sometimes but through the plaster it is coming all over. Does any one of our readers know of a cure? Chimney also is wet outside above the roof.-G. R.

The brown juice which you speak of as running out of the pipe and chimney, could come from two sources. Wood, in burning, especially when it has not enough air for free burning, forms such products as creosote, wood alcohol and acetic acid, which may condense and run out of pipe. Beech wood gives off more creosote than other wood.

This condition may be helped by ful attention to the regulation of drafts. In case the lower drafts are closed tightly the draft in the door should be opened to burn the gases

Snow or rain coming in at the top of Numerous instances are on record the chimney may run through. This where various people have tried to may be prevented to a large extent by patch up a stand of alfalfa by re-seed- a piece of sheet metal over the top of ing, and fertilizing the poor spots, and the chimney, causing the smoke to come out at either end of it. All the The concensus of opinion is that the pipes and the chimney should be kept

The Handy Man's Corner

Home" contest which recently appear- swing into the wall and chute run ed in our columns. We feel sure you from this door to the basement furwill find something of value in them. nace room. To sweep dirt into this -The Handy Man.

HELPS FOR WOMEN.

A power plant is a wonderful gift, The housewife's heavy work to lift. For washing dishes, too, I think, A fine thing would be a nice large

Running water and painted floors, An old rag carpet at kitchen doors. A table on wheels, food and dishes to

carry,
And a washing machine makes my
housewife merry.

—Alford F. Ward.

BEING KITCHEN SLAVEY.

A BOUT three years ago the good wife was sick in bed for two weeks and I was the kitchen slave.

Say, I tell you, I got so tired of lugging water, filling and cleaning lamps, wearing off my knuckles on the washboard, that I said to myself, "never again."

I had to have an engine to run my cream separator, so I got a kerosene one at \$100. A belt-driven washing machine cost me \$41. That paid for itself in twenty washdays.

I had soft water in the bathroom, but no hard water. I bought a tank from a junk pile for \$2.00 and piped the water from the windmill to it.

I laid an iron zink, \$1.00, on the floor of the back room and a short piece of hose connected to the washing machine carried off the wash water. This ran near the roots of my raspberry plants and in the dry weather was a blessing to them.

I had the house wired. I bought a second-hand generator for \$50, batteries for \$65, and now have electric lights in the house, hen house, barn and hog pen. Incidentally, a contented wife.-R. L. Beckwith.

A CONVENIENT HOUSE.

A FARM house should have a basement under the whole house. The basement should be divided into three rooms, using hollow tile for partitions.

The furnace room should have a furnace with automatic regulator to regulate the heat. A hot water tank should be attached to the furnace, also a small heater or stove attached to hot water tank for summer use.

The fruit and produce room should be under the kitchen and have a cupboard, an ice box and a potato bin, also a dumb waiter to go up into the kitchen.

The laundry room should have two stationary tubs, a power washer and wringer, an ironing board attached to the wall so as to fold up out of the way when not in use. There should be either gasoline or electric power in this room to run the washer and do the ironing, also lights, and hot and each end to make the arch effect, and cold water and plenty of windows to

open into the furnace room and doors along the end of kitchen. Could use from laundry close to outside door. also fruit and vegetable room should screened-in sleeping-room. open into the furnace room.

for the family, have a sink with sewer dry and cellar. pipe connected, a range, oil stove, a kitchen cabinet, a built-in cupboard, what such a house costs?" Yes, I do. between dining-room and kitchen. This I have built three of my own and finlower tier should have three bins that they cost city people, and a farmer swing out. The dumb waiter should needs the above kind of a house more also be in this cupboard and connect than the city people.—Charles T. with the vegetable room in the base- Schmieding.

HERE are three of the prize letters ment. There should also be a small in response to our "Helps in the door ten by twelve inches that will door does away with the dust pan and thousands of steps during year.

> The dining-room should be large enough for the family, with built-in buffet and china closet beside the cupboard from the kitchen. It should have three windows, grouped on the south side preferably.

> The living-room wants to be roomy, have a built-in bookcase, a fireplace and a group of three windows. There should be at least one bedroom on the first floor with two windows, a goodsized clothes room between the bathroom and bedroom, with a high window. There should be a door from the

Getting Ready

WHAT is done between now and spring helps a lot at that time soon to come when there is so much to do that we do not know which way to turn. Many have convenient ways of doing things that others should know about. For this reason we would like letters from our readers on "How I get ready for the spring work." The writers of the five best letters will receive a pair each of our handy pliers.

All letters coming in before March 2 will be considered in the prize awards.—The Handy

bedroom to bathroom through this closet, also a door from the bathroom into the living-room. Besides the regular bathroom fixtures, there should be a built-in medicine closet, a built-in clothes chute that would connect with the laundry, so that when changing clothes they can be put into this chute and land in the laundry in the basement.

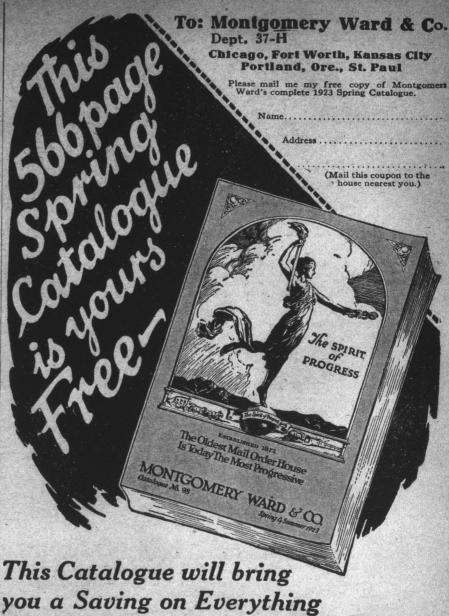
I would have no parlor. However, I would have a den or office room large enough for a roll-top desk, a library table, safe, built-in bookcase, a waste paper chute to the furnace room, and an outside door and a goodsized window.

Upstairs I would have it studded in so as to have a hall and three bedrooms of good size to receive a bedroom suite, and each one open into the hall. By studding in, it would leave lots of closet and store room. In the hall I would have good light and a dirty-clothes chute to the laundry in the basement, also a dirt chute to the furnace room like the one in

This house should have a porch across the front side of the house at least ten feet wide, with one post at a porch on the back side of the house to suit the taste of the builder. I The outside basement door should would figure this from the woodhouse above the wood house for a

I would have running water in at The kitchen should be large enough least two bedrooms, the kitchen, laun-

I hear someone say, "Do you know cupboard should go clear up to the ished them in genuine oak, and will ceiling, with three tiers of doors. The say that they cost a farmer less than



you a Saving on Everything you Buy this Spring

Millions of people will this Spring save money on everything they buy from this Catalogue.

Will you miss the saving that may as well be yours? Millions of people buying from this book will secure at lower than market prices, goods of standard quality, goods of the long wearing service-giving kind.

This book offers you, too, a saving—and it offers you certain satisfaction, a guaranteed satisfaction with everything you buy.

Montgomery Ward & Co. is a low-price house. But for Fifty Years we have kept faith with the public. We never sell "cheap" goods to make a low price. Ward Quality is never sacrificed.

A saving made on your purchases at Ward's is a real saving-because there is always more than a dollar's worth of service for every dollar of the price.

Everything for the Home, the Farm and the Family

For the Home: This catalogue shows everything for the home and for every member of the family. Everything to wear-the best New York Styles. Everything for use or decoration, from furniture and carpets to kitchen stoves.

For the Man: Everything for the farm, everything for the automobile, everything in wearing apparel; tools, farm equipment, poultry and stock supplies. There are many dollars to be saved through buying everything from this Catalogue.

Your Orders Shipped Within 48 Hours

Our new system of filling orders is now six months old. Six months' suc-cessful operation enables us to say— Your order will be shipped immedi-ately; certainly in less than 48 hours. As a matter of fact, most of the orders are now being shipped the same day they are received.

With the lowest market prices, goods always of Ward Quality, and the most prompt and accurate service, it is true indeed that: "Montgomery Ward & Co., the Oldest Mail Order House is Today the Most Progresive."

One copy is yours free. You only need to return the coupon,

■The Oldest Mail Order House is Today the Most Progressive ■ CHICAGO, FORT WORTH, KANSAS CITY, PORTLAND, ORE., ST. PAUL



Michigan Farm Bureau Brands include the Best varieties of alfalfa, clo ver, seed grains and other field and grass seeds. Their Vitality, Description and Purity are guaranteed to be as represented to the full amount of the Purchase

Michigan Grown Alfalfa Seed

Monroe County, Michigan, has been producing one strain of Alfalfa seed for thirty-seven years. The farms on which this Alfalfa has been grown are mostly heavy clay with poor drainage.

These conditions are commonly considered the most difficult for Alfalfa production.

We believe this Monroe County Alfalfa is the best strain of Common Alfalfa grown anywhere and that it is thoroughly adapted to Michigan conditions.

For further information write us for our pamphlet or write the Farm Crops, Department M. A. C., East Lansing, for their lit-

Order early from your Local Co-op. Get Farm Bureau Brand Seeds of all kinds.

Farm Bureau Brand Seeds are tagged with our analysis and guarantee which covers the full amount of the purchase price.

Seed Department

MICHIGAN STATE FARM BUREAU



Prizetaker ONION







No Farm Cure-Alls

(Continued from page 213)

get along on a rate of return as low market situation is to be had, a proas five or six per cent?" Mr. Dunn gram of marketing will be put forth asked his hearers. Doubtless he did also. "You hear all sorts of things not look for a reply, but from all parts about the marketing system and what of the room came cries of "The farm! ought to be done to remedy it," he

are in the same class."

The conditions necessary for a per-thing about it when I don't." manent agriculture for the United Artistic Development in Rural Homes. States were outlined by Eugene Davoccupies a piece of good land today, present. the next occupant may be a "land rob-

Increased Land Prices in lowa. though they may be in idleness them- and other adequate conveniences for

acre, and declared that it is due in ing to beautify the country homes. great part to the influence of the men of wealth who desire to own land, no

Permanent Agriculture is Public Question.

is the effect of tenancy upon the land commission on agricultural inquiry, of that individual farmers be educated to tive Anderson declared that no way much as they take away from it.

solgan put forth by President Friday in his second address, "Rural Culture,"

erature.

A Press Expressing Rural Ideas.

the college and remarked that as soon

"What other industry is expected to as reliable information concerning the said. "It isn't that we know so much "All right," shouted Mr. Dunn. "That less than other people about marketshows the railroads and the farmers ing-we're simply more honest. I'll be jiggered if I'll say I know some-

In reference to cooperation, Presienport in his address given Wednes- dent Friday called the agricultural colday night. To have a permanent agri- lege the greatest cooperative enterculture we must build for at least one prise to be found. The cooperative thousand years, said the speaker. We principle ought to be applied also to must plan to keep our land as fertile ventures in rural press and rural one thousand years from today as it is schools, he maintained. "When the exnow. The fertility question every na- tension system is all ironed out," he tion must settle for itself or else go said, "we'll have in every rural school out and fight for new land, if it ex- a teacher who is a graduate of the pects to continue. Every twenty years, agricultural college and who is agrion the average, land changes hands, culturally minded. I hope we may Even though a good farmer who is have consolidated schools on a scale interested in maintaining the fertility even bigger than we have them at

"But the real essence of life is art. Do you suppose I'd be a college president if I could sing like Caruso, if I The tendency toward tenant farming could act like Forbes-Robertson? Not was deplored by Dr. Davenport, who for a minute. In the rural home we said that unless the public is willing must go beyond home economics, beto pay prices sufficiently high to per- youd nutrition to artistic design. We mit young men to buy and pay for must make the home attractive inside farms within a period of twenty years, and out if we're going to have a real most of the good land in the United culture. We must have creative work States will fall into the hands of a that is not merely useful, but satisfies class of landed aristocrats, who will the thirst for true beauty. We must reap the return from the land, al- have in the rural centers, auditoriums social intercourse. We must have in Dr. Davenport described the land those auditoriums good music. We craze in Iowa, where land which be- must have a novelistic literature pecufore the war sold for \$200 or \$300 an liar to rural life. We must make use acre now sells for as high as \$900 an of the principles of landscape garden-

No Immunity for Hard Times. "Will America ever take the place matter what the price, and to the land in the world's history that her wealth speculators. Because of the inflated and economic power entitle her to? land values, it is becoming more and Not unless she develops an art and a more difficult for a young man to buy literature that will give her a place and pay for a farm. The young farm- along with Greece and Rome in the

ers therefore are becoming tenants. galaxy of nations. I propose that the rural community in its new-found culture shall achieve this place." The sad part of the whole situation In describing the work of the joint Dr. Davenport advocated which he was chairman, Representa-

the need of putting back on the soil as was found by which the farmer might "eat his cake and have it, too." "The matter of a permanent agricul- found no legislative panacea," he said, ture is a public question rather than a "to be applied like a mustard plaster farmers' question," he said. "We must as a remedy. If we had, there are so solve it by individual effort—and can't many people who prefer pills we'd get anywhere with public ownership." have got only a partial result. We "The Boobs for the Towns" was the found no immunity from hard times.

Cost of Marketing.

"There are two factors that affect on Thursday evening, February 1. the profits of the farm. One is the "The sooner those people who don't cost of getting the products to marwant to use efficient methods move to ket. But it is impossible to separate the towns, the better it will be for the costs of production from the costs all," he declared. "The more people of marketing. The farmer cannot conthere are in the towns to eat and buy, trol the factors of production. But the better off we are on the farms." there are some things he can control "Rural culture," he said, meant that that govern the cost of getting his in the long run the farmer will not product to market. It costs more to run to town every time he wants in-sell at long distances than at short tellectual, esthetic or social enjoy-distances. It costs more to sell unment. Whereas now the farmers read standardized goods than standardized pers, edited by city men with goods. It costs more to sell perishcity views, they ought to have at their able goods than non-perishable goods. disposal a rural press and a rural lit- It costs more to sell in small quantities than in large quantities. It costs more to sell many varieties than few The rural community must develop varieties. It costs more to market a its own cultured," held President Fri- seasonal product than one which is day, "and that culture must be one of produced all year round. It costs more repose and not sophistication, which to sell a product with a seasonal deis simply 'smart Alec stuff.' We must mand than one for which there is a think our thoughts in our own way." year-round demand. It costs more to He launched into a discussion of the sell a product which the consumers do lowered cost of production program of not know and recognize. It costs just (Continued on page 243).



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2 Point, Galv. Hog Barb Wire, 80 rod spools.
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Staples, 1¼ in. in 25 lb. sacks.
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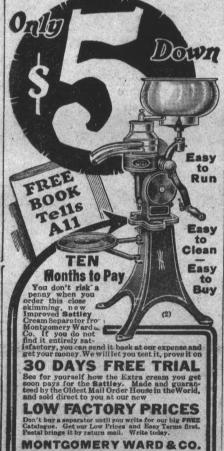
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Farm Bureau Grows Stronger

(Continued from page 213).

the State Bureau of Animal Industry, Week. breeders.

Brody and the heads of the several Millers' Association in order to secure farm bureau departments for their suc- a better and larger market for Michicessful management of the bureau gan grain and the products of Michiduring the past year and for the gan mills. farm organizations.

ed-milk" bill, and the proposed con- coming election. have given these measures.

which will make the eighteenth advisable to end it. amendment to the federal constitution

further bond issues that urge the adop- poses at the present time.

as the most just tax that can be es. sary burden on the people of the state. tablished. Will assist in the initiation of the state income tax constitutional the primary election law and if such and a progressive rate at the coming endum vote is secured on the question. April election.

12. Condemned the practice of issuing tax-exempt state municipal bonds and pledged support to the Towne bill now pending in the state legislature to prevent the issuance of such taxexempt bonds in Michigan.

13. Believe that the present corporation law was discriminatory against smaller corporations and in favor of larger ones and, therefore, favor a decrease of the minimum tax from \$50 to \$25, and a sufficient increase of the maximum limits so that the largest corporations would pay on the same basis as the medium-sized ones.

14. In favor of a two-cent a gallon gasoline tax in Michigan to raise the for highway construction should be apfunds for interest and retirement of state highway bonds.

commission and state board of equal-should be under control of the board ization, and opposed to a reduction in of supervisors. the number of members on the state tax commission from three to one.

loads to the decrease of highway de- sist in the above. preciation.

primary school fund.

office of county assessor.

the work done by the State Depart- and individuals in stopping this waste. ment of Agriculture to the Michigan Agricultural College.

20. Heartily endorsed President Friday's program for promoting efficiency day's program for promoting efficiency of Michigan agriulture, for the development of our home market.

Groesbeck and the state administra- obligations and a large number had to tive board for the purchase of Michi- be given extended time to make adgan flour and Michigan canned goods justments. ed articles.

a willingness to cooperate in the es- for a certain portion of the crops.

eradication now being carried on by tablishment of a Michigan Flour

and the adoption of the five-year pro- 23. Recommended that efforts be gram opposed by the state live stock made to secure more cooperation by the State Farm Bureau and the Ele-7. Commended Manager Clark L. vator Exchange with the Michigan

friendly spirit they have shown other 24. Heartily approved the appointment by Governor Groesbeck of Clark 8. Endorsed the Great Lakes-to- L. Brody as a member of the State ocean Waterway project, the Capper Board of Agriculture, and endorsed "truth-in-fabrics" bill, the Voight "fill- Mr. Brody to succeed himself at the

stitutional amendment to prohibit the 25. Condemned the practice known issuance of all tax-exempt securities as the "Pittsburgh Plus," which adds in the United States, and commending the freight rate from Pittsburgh to all the American Farm Bureau Federa- steel products, and recommended to tion for the vigorous support they the state legislature now in session to adopt resolutions against this practice 9. Strenuously opposed to anything and to take other steps as may be

26. Recommended some adequate reless effective, and strongly urged the forestation program to be adopted by rigid enforcement of the Volstead Act. the state and urged that immediate 10. In favor of economy and effi- steps be taken to conserve small trees ciency in national, state, county and on cut-over and re-planted areas local government and of discouraging which are unprofitable for other pur-

tion of the pay-as-you-go policy by the "full crew" bill now before the senate, 11. In favor of a state income tax because it is an added and unneces-

28. Opposed to any action to nullify amendment with a \$4,000 exemption, action is taken will see that a refer-

> 29. Recommended a fifty-fifty basis for beet sugar contracts as agreed upon by the farm organizations of the state and the Owosso Sugar Company.

> 30. Opposed to the manufacture and sale of "filled milk," and heartily endorsed the nation and Michigan bills on this subject.

> 31. Urged that quail be placed on the song-bird list because they are friends of the farmer and deserve protection.

> 32. Favored the repeal of the Covert highway law.

> 33. Instructed the board of directors of the Michigan State Farm Bureau to continue pooling of wool for 1923.

34. Recommended that state awards plied to paying the bonds of the several districts and that all highway 15. In favor of the present state tax funds coming back to the county

35. Request the legislature to regulate the sale of war material from the 16. In favor of a reasonable regula- Charlotte warehouse so they may be tion of commercial bus and truck lines available to all the people of the state. and the increase of their licenses to If control of such material is vested in provide more funds for highway main- the federal government, our representtenance and the limitation of their atives in congress are requested to as-

36. Petitioned the state legislature 17. Opposed to abolishing present to enact laws to stop the practice of cutting young trees on all lands under 18. Opposed to the creation of the state control. Also urged that the State Conservation Department coop-19. In favor of transferring part of erate with corporations, organizations

SHARE RENT IS MORE COMMON.

ed cash rent. Many tenants have had 21. Approved the action of Governor great difficulty in paying their rental

for state institutions, and recommend- In one county eighty-seven farms ed that the policy be extended to all rented for cash in 1920. Today there agricultural products and manufactur- is scarcely one of this number which is being handled on the cash basis. 22. Commended the purpose of the The tenants are afraid to engage them-Agricultural College to study what selves to a definite cash amount; products Michigan farmers can best hence the landlords have to meet the raise for state markets, and expressed terms of the men who will take farms

POTATO ASSOCIATION GROWS.

MEMBERSHIP in the Michigan Potato Producers' Association increased from 136 to 553 during the last year, it was revealed by the report of H. C. Moore, secretary of the association. Altogether 3,196 acres of potatoes were inspected for certified seed and 2,429 acres qualified for certification. Certified seed produced was 315,758 bushels, of which 267,000 bushels will be offered for sale-118,000 bushels through the Michigan State Farm Bureau. Michigan was third in the United States in production of certified seed during 1922, having grown one-sixth of the total supply. There is still room for improvement in eliminating frozen potatoes, keeping varieties separate and grading accurately, according to Secretary Moore.-H.

JUDGING CONTEST AT FARMERS' WEEK.

BOYS and girls who attended Farmers' Week were to be seen at many of the meetings, but no spellbinder had half the attraction for them that the high school students' judging contests held. There were 180 entrants in the grain judging, 110 in the live stock judging, sixty in the poultry judging and eighty in the fruit judging. Results of the fruit judging were the earliest to be compiled. Bangor High School took first place with 562 followed closely with 506 for third. Plymouth placed fourth with 479 and Benton Harbor fifth with 445. Other schools entered were Hillsdale, Ypsilanti, Ionia, Traverse City, Cass City, Paw Paw, Holly, Howell, Hazlett and Buchanan.-H.

MUCK CROP EXPERIMENT VALU-ABLE.

MR. M. A. WRIGHT, of Gagetown, Huron county, in his talk before the Michigan Muck Farmers' Association, said that his onion crop in 1922 would have been increased by 2,400 bushels if the information he obtained from the muck crop experiments conducted on his farm by the soils department of M. A. C. had been available last spring. Dr. Paul M. Harmer, the college muck specialist, gave the results of the muck experimental work on general crops and truck crops on twenty-one farms during 1922.-H.

A TON LITTER CONTEST.

A next summer was announced at the meeting of the Michigan Swine Breeders' Association. The purpose of the contest will be to stimulate efficient feeding for pork production. Litters weighing the most at the end of 180 days will be awarded prizes. The animal husbandry department of the college will cooperate with the breeders' association in putting on the con-

A GOOD POULTRY RATION.

BALANCED ration for poultry A which finds favor in a number of Copyright. Hooven & Allison Co., 1923 other states was recommended by D. E. Hale, of Chicago, in his talk before the Michigan Poultry Association, as follows: Equal parts of wheat and corn, as a scratch feed, and a mash of two parts ground oats, two parts bran, three parts millings, two parts ground corn and two parts meat scraps. The corn content of the mash may be increased by one-third for winter feeding. Eight to ten per cent of the meat scrap may be replaced by skim-milk or buttermilk .-- H.

Says Sam: It's those who stick that turn the trick.



points out of a possible 600. Allegan was second with 507, while St. Johns Have you ever looked inside a rope? Look for the "Blue Heart," your assurance of safety and strength

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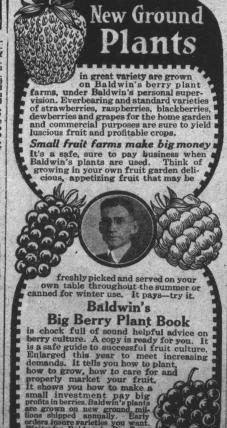


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News From Cloverland

THE Upper Peninsula Development ing the fair. Bureau has made an appropriation of \$1,500 to assist in the land-clearing campaign of the Michigan Agricultural College in the peninsula, this season, and to assist and promote boys' and of this amount will be used to send winning club members to the National Dairy Show, next fall.

LOSIS

AS a consequence of the anti-tuber-culosis campaign in Gogebic county as a result of which practically all cattle in that county were tested. Gogebic county is included in the order tial gain shown above. of the State Department of Agriculture excluding from importation into the county all cattle not from an accredited herd and previously tested by The previous tuberculin test must have been applied not above sixty days be- the conditions should be noted. fore importation is sought. The rule purposes must be certified as free established by the State Department of Agriculture. Gogebic county is the an increase in the load is necessary. only Upper Peninsula county affected by this order.

FARMERS' ASSOCIATION ACTIVE.

HE business men of Ewen, Ontonago county, it is announced, will lunch the farmers of the Ontonagon Valley Farmers' Association at that place, February 17. At the monthly meeting of the farmers' association, on January 20, a cow-testing association was organized. Members of the association made request that the county agricultural agent, Mr. W. M. Clark, procure them pure seed grain for this spring's planting. The association has been active in pushing for lower freight rates between the southern and northern sections of the county, and assurances have been given, it is stated, that the South Shore Railroad will comply with their wishes and thus avoid a formal hearing before the public utilities commission at Lansing. It now remains to see what the Chicago, Milwaukee & St. Paul Railway will do.

The cow-testing association contains twenty-five members and Mr. W. C. Gale, of Atlas, Michigan, has been engaged as tester. Mr. Gale is M. A. C. trained, and was connected with a big dairy farm near Flint, at one time, it is-stated.

MEETING OF FAIR SECRETARIES.

N response to the efforts of Mr. E. with about the same results. G. Amos, assistant state leader of secretaries of the fifteen fair associations of the Upper Peninsula on Febof supervisors has made an appropriation to cover the expenses of this meetarrangements has been named. The we advertise our fairs, the arrange-

COOPERATES IN LAND-CLEARING. competitive community games, judging as an educational feature, and financ-

RUSSIA INCREASES WHEAT ACREAGE.

and to assist and promote boys' and agirls' club work. The major portion A soviet government of Russia there has been an increase in the acreage of wheat planted in that country during the past season as compared with the year of 1921. The total GOGEBIC CLEANS OUT TUBERCU. acreage in the districts reported upon show a jump from 7.158,000 acres to 8,358,000 acres. In the largest district, that of Ukrane, there is a decrease of nearly half a million acres. Others have increased enough to make up this shortage and make the substan-

SHOOTING A DITCH.

(Continued from page 211). an accredited veterinarian. The order ous because of a change in the soil is effective as from January 1, 1923. conditions which may necessitate the change in spacings. After each shot

Usually for the ordinary drainage does not apply to cattle intended for ditch on the farm one stick of dynaimmediate slaughter, provided such mite to the hole is sufficient, except are separated from other cattle in the where stumps or stones have to be county. All cattle offered for sale in moved and then an extra stick may be Gogebic county for breeding or dairy necessary. A general figure for ditching is five pounds of dynamite to the from contagious or infectious disease rod. This will give a ditch two to in accordance with three regulations three feet deep and four and one-half to five feet wide. For larger ditches

> Naturally, every one is interested in the cost of blasting ditches. The cost will vary according to the soil, moisture content and the amount of obstructions in the course of the ditch. For a series of thirty-five ditches blasted in 1920 the average cost was twenty-five cents per cubic yard, with an average depth of 3.4 feet and an average width of 5.5 feet. On a ditch blasted through wet sand on the C. I. Cook farm at Menominee, Michigan, the cost was nineteen and a half cents per cubic yard. This ditch was threefourths of a mile long, five feet deep and on an average width of seven feet. Two tons of fifty per cent straight nitroglycerin dynamite were used, costing \$900 and the labor cost \$100. Mr. Cook says, "the big advantage we see in dynamiting ditches is the speed with which the ground can be covered. It does away with the necessity of hiring a large crew of men for a long period of time." On the Upper Peninsula Experiment Station Farm at Chatham, a ditch 968 feet long, 1.8 feet deep and 5.4 feet wide, cost \$44.99. One man blasted this ditch in twelve hours and used 200 pounds of fifty per cent straight nitroglycerin dynamite. From this it can be seen the speed of the work. One farmer remarked that it would take six men and teams all summer to dig the ditch on the Cook farm, where it took dynamite about five days. Several other ditches have been blasted during the summer

The same precautions for handling county agents for the Upper Penin- dynamite in stump blasting apply to sula, there will be a meeting of the ditch blasting. If the cap and fuse method is used particular attention must be given hang-fires. A hang-fire ruary 20. The Marquette county board under a stump is dangerous, but the hang-fires in ditch blasting are far more treacherous and no one should ing, it is stated. A local committee on try to investigate a hang-fire for some time. In case the fuse is lying in waprogram for the conference includes ter plenty of soap, tallow, paraffin or discussion of such topics as the fair hard grease should be used to keep as an educational institution, how shall out the water. Use plenty of fuse to give yourself time to be at least two ment of exhibits, boys' and girls' clubs, hundred feet from the ditch.

MICHIGAN APPLE SHIPMENTS.

A PPLE shipments by freight or express or by both to points outside of the state amounted to 5,000 cars, according to report made by O. K. White to the commissioner of agriculture. This does not include the amount taken out of the state by motor truck, which in Mr. White's opinion, nearly equals the 5,000 cars.

The recorded shipments of peaches was 1,573 cars, while that of grapes was 5,712. More than 500 cars of muskmelons were sent to Chicago, while several hundred other cars were sent to points in Ohio and Indiana.

FARMERS ARE CENSORED FOR NEGLECTING LAND.

IN Sweden a farmer can be reprimanded for neglecting his land. Over eleven hundred cases of abusing farm land by neglect to cultivate it properly, had been dealt with by the governors of the provinces during the last four years. There has been much discussion as to what degree of carelessness would be called neglect, but the Swedish cultivation extension committee came to the conclusion that whereas land was overgrown with weeds correction was necessary. When a farmer's fields produce much less than his neighbor's, his case is investigated and he is given a reprimand if the committee thinks it necessary.

CROSS BETWEEN TURKEY AND CHICKEN.

A NEW development in the poultry industry is a cross between a turkey and a chicken. This high-bred has been propagated for four years by a California breeder. He calls the fowls "turkens," and now has quite a large flock of them.

The male bird has the gobbler neck and other resemblances of the turkey. The female has a turkey head, otherwise looks like a chicken. In color they are generally red and when fullgrown they weigh about nine to thirteen pounds. Their eggs look much like those of the Rhode Island Reds and they weigh about twenty-six ounces to the dozen.

It is claimed that the turkens will lay about 200 eggs per year. The eggs hatch in twenty-one days.

FARMERS AND BUSINESS MEN GET TOGETHER.

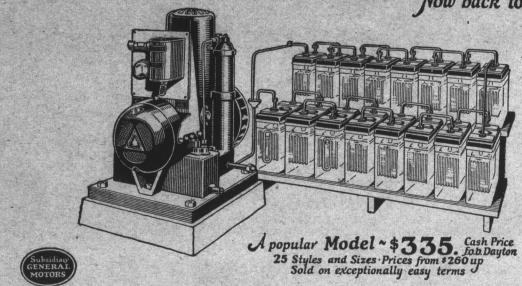
PERHAPS the most popular of the new features of the 1923 Farmers' Week was the series of joint luncheons held in the swimming pool room of the gymnasium, in which four business men's organizations of Lansing met with an equal number of farmers' organizations. On Tuesday, January 30, the Lions' Club met with the Michigan Improved Live Stock Breeders' and Feeders' Association. On Wednesday, January 31, the Exchange Club met with the Michigan Crop Improvement Association. On Thursday, February 1, the Kiwanis Club met with the Michigan Potato Producers' Association. On Friday, February 2, the Rotary Club met with the Michigan State Farm Bureau.

LIVE STOCK EXCHANGE SHOWS PROFITS.

THE Michigan Live Stock Exchange realized a surplus of more than \$10,000 in the first seven months of business handled through its cooperative commission house in Detroit. The Detroit Commission House was opened last June as a direct outlet for the produce of 120 live stock cooperative associations. This commission house was said to have handled about thirty per cent of the live stock sold through the exchange in Michigan since June.

Dependable DELCO-LIGHT

Now back to 1917 Prices







We believe that you will be surprised at the small amount of money it will take to put electric light and power into your home.

We suggest that you get in touch with the Delco-Light dealer in your vicinity to find out what it would really cost to install complete the Delco-Light fitted to your needs.

If desired, you can buy your Delco-Light on easy terms.

DELCO-LIGHT COMPANY, DAYTON, OHIO Subsidiary of General Motors Corporation

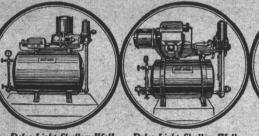
llso manufacturers of Delco-Light Water Systems, Delco-Light Washing Machine and Frigidaire, the Electric Refrigerator. All products nade for 32 and 110 volt Direct or Alternating Current Service.

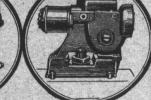
Pringle-Matthews Co. E. H. Walker Co.

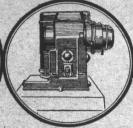
49 E. Elizabeth Street 18 Fulton Street 212 N. Erie Street

Detroit, Michigan Grand Rapids, Mich. Toledo, Ohio

Owners of Delco-Light Plants can avail themselves of the conveniences offered by Delco-Light Products, which are made for AC or DC current for use in country or city he









Delco-Light Shallow Well Pump \$195 f. o. b. Dayton

Delco-Light ¼ h.p. Deep Well Delco-Light ¼ h.p. Deep Well Pump \$225 f. o. b. Dayton Pump \$300 f. o. b. Dayton

Three implements for the price of one

You can buy separate seeders, single-wheel hoes, and double-wheel hoes—but that's not necessary. This Planet Jr. No. 25 combined seeder, double and single-wheel hoe is all three implements in one, as practical and as economical a tool as is made. This substantial implement combines the accuracy and sim-plicity of all Planet Jr. seeders with the separate and distinct advantages of



Planet Jr. single-wheel and double-wheel hoes. Complete equipment includes hoes, cultivator teeth, pair of plows, and marker, all oil-tempered by the special Planet Jr. process. Compare this implement at your nearest Planet Jr. of Write us, or ask your dealer for the Planet Jr. catalog.

S. L. Allen & Co., Inc. Dept. 58 *
Sth and Glenwood Ave.
Philadelphia

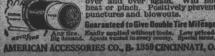
Planet Jr.



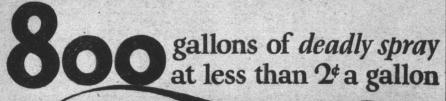
A New Labor Saving Implement

Write Le Roy Plow Co., Le Roy, N. Y.

Insyde Tyres







NEXT to its deadly certainty, the best thing about Hall's Nicotine Sulphate is its very low cost. It can be diluted with water 800 to 1000 times to make a deadly spray costing less than 2 cents a gallon.

Hall's Nicotine Sulphate contains 40% pure Nicotine - the most powerful contact poison known. Being a vegetable extract, it will not harm fruit, flower or foliage. But it will wipe out aphids, thrips and similar insects. Use it next season.

Buy from your dealer. If he not-supplied, send us your order along with his name.



3951 Park Ave., St. Louis, Mo.

10 lb. tins - \$13.50 lb. tins-3.50 1/2 lb. tins -1 oz bottles -10 lb. tins make 800 to 1000 gallons of spray.

TEN POUNDS

SULPHATE

Always Mention The Michigan Farmer

Plant A Strawberry Bed

It Means Good Eats and Profits for You By B. W. Keith

strawberries for your table every day through the runner on which it is during the berry season, and have formed, therefore they should be causplenty to can, preserve and jelly for ed to root as soon as possible. In takwinter use? The same can be had ing root, these runner plants should with very little expense and care on not be allowed to form thickly be-

ed to grow all the strawberries your take root, so that they will not averfamily can possibly use is insignificant age closer than five inches apart formcompared with the pleasure and prof- ing a row twenty inches wide. After its to be gained. From a plot of you have your twenty-inch row formground forty by thirty-five feet, with et, all runners thereafter should be just average care, can be grown a cut off and the plants you have in your sufficient amount of strawberries to row allowed to grow and become as supply the needs of a family of seven. vigorous and thrifty as possible. They And with a little special care, a great are the plants that will produce bermany extra quarts can be produced ries for you the following spring, and and sold at a good profit. Few people if you space them as metioned above, realize the big expense of having to they will be vigorous and thrifty buy all the strawberries needed for enough to set and produce large yields their tables, while at the same time of fancy berries. they do not realize how cheaply this same amount and many more berries have all you actually need.

forty feet long, requiring twenty-five time required to prepare the soil and set them should be very little. Preering of thirty-five bushels of well-rot- preserve soil moisture. ted barnyard manure. Thirty-five bushels will be sufficient for the plot of ground mentioned. If possible, this should be applied some time before plowing. Plow the manure under seven inches deep; and, while the ground is still rough, apply seven to ten bushels of fine, well-rotted barnyard manure and then harrow and work the soil until this top dressing is well mixed with the soil. Remember, the soil should be made very firm, which is accomplished by aid of a roller or pulverizer. If it is not packed firmly, it will not hold the moisture as it should; so consequently, your strawberry plants will not make the growth they should during the following summer. You will be well paid for all the time you spend in thoroughly preparing your soil.

Watch the Growth of the Runners. Set the plants about eighteen inches in rows spaced three and one-half feet of the soil.

soil soon to become self-supporting, hand-weeding unnecessary.

ID you ever experience the pleas- But before they have taken root firmure of a strawberry bed where ly in the soil, all their source of supyou could pick fresh, juicy, sweet ply must come from the mother plant tween and along the sides of the moth-The time, expense, and space requir- er plants. Place them, before they

Put on an Overcoat in Winter.

After the twenty-inch row is formed, can be grown. The pleasure of hav- cultivation and hoeing should not ing all the strawberries your family cease, but be kept up often enough to can use is yours by setting a few keep the ground mellow and all weeds strawberry plants this coming spring; and grass from between the rows and but, just as sure as you do not grow plants. In the late fall after ground your own strawberries, you will never freezes two inches deep, mulch the rows with some coarse material free Fertilize and Cultivate the Plot Well. from weed seed, such as straw, marsh Two hundred fifty strawberry plants grass, potato vines, etc. Place the will be sufficient to set the plot of same five or six inches deep on the ground forty by thirty-five feet men- rows and if the supply is sufficient, tioned above. They should be set in some should be placed between the rows three and one-half feet apart and rows in the spring shortly before the danger of frosts is over, part of the plants per row. If this plot of ground mulch on the rows should be removed is too large, the 250 plants can be re- and placed between the rows. The duced accordingly. These 250 plants blossom stems will come up through should not cost over \$3.00, and the the mulch that is left on the rows and when the berries form and ripen, they will be prevented from coming in conpare the soil as early as possible in tact with the soil. The remaining the spring, applying a good liberal cov- mulch will also keep down weeds and

TO CONTROL STRIPED BEETLE.

TERE is my recipe for taking care Hof the striped vine bug, the squash bug and the onion maggot. I save all fine ashes and soot from the stove and pipe during the winter, keeping them dry. Then I take a syrup pail, put a stout bail on same and punch about two holes in the center of the bottom of the pail with a twenty-penny spike. I have used this dope for twenty-five years and never lost by it. I have raised onions on the same ground for four years, and the fourth crop was the best.-N. M. Crout, Gladwin Co.

PRIZETAKER ONIONS FROM

OUR winters are too long to leave us time enough to grow the Prizeapart. Make a V-shaped hole with a taker onions like we do the ordinary common spade, spread the roots as varieties, but this fine large onion is much as possible in this hole and then so much sweeter that it pays to go to pack soil firmly about them with the some trouble to give it a longer seafoot. The crown, or bud, of the plant son. When our winter is waning we should be just even with the surface can plant the seeds in a box in the house or in a mild hot-bed outside, or After planting, keep the soil well even in a frame made against the sunstirred about the plants, keeping down ny side of a building, and get the all weeds. Shallow cultivation, not plants the size of a slate pencil by the over two inches, should be followed: time we could sow the seeds outside. Keep all blossom buds picked off as The seedlings in the boxes or beds they will devitalize the newly set will be so close together that the work plants and prevent the formation of of weeding and cultivating will be light, and this fact will make the labor About three weeks or sooner after of growing no greater than if we sowsetting, the plants will begin to throw ed the seeds where we intended them out runners, and on these about every to grow. Onions grow even easier nine to sixteen inches will be formed than weeds, and will transplant withthe new or runner plants which will out loss. The plants are almost as throw out roots from their underside easily set out as sets are planted, and and thus become established in the the onions are large enough to make

TO INCREASE POTATO PRODUC-

NCREASE in potato production per acre is being fostered by the exten sion division of M. A. C. in three ways potato growers were told by J. W Weston, extension specialist. These are the use of certified seed, spraying and the use of proper fertilizers. On 1,585 farms the use of certified seed gave an average increase in yield of forty-one bushels per acre, while spraying five times gave a further increase of fifty-seven bushels. Fertilizer demonstrations held in twelve counties also showed substantial increases.-H.

THE COLLEGE PARADE.

DESPITE the rain and slush, thousands of spectators crowded along the line of march when "M. A. C. went on parade." The college reserve officers' training corps, with its infantry, cavalry and artillery units, led the procession. The various divisions of the college were represented by interesting and spectacular floats. A number of the animals that won prizes at the International Live Stock Show were included in the live stock section. The parade was more than a mile in length.-H.

FRUIT SOCIETY TO MEET.

THE Michigan State Horticultural Society will hold its annual prespring meeting at Paw Paw for three days, from February 28 to March 2. This is establishing a new precedent of the mid-winter meetings, as former meetings have been only two days in length.

At a recent meeting of the executive committee they took favorable action on the recommendations of the State Bureau of Markets regarding the proposed changes of the Braman apple grading law. The legislature was asked to amend this act so as to incorporate an "off color" standard grade in its provisions.

DATA ON MICHIGAN AGRICUL-TURE.

THE annual report of the Michigan Crop Reporting Service, just from the press, in addition to the usual data published annually, contains complete county figures on the acreage of all crops, numbers of bearing fruit trees and numbers of live stock. This was made possible through the statistics on argiculture collected by township supervisors early in the season, and which were compiled in the office of the Michigan Cooperative Crop Reporting Service in addition to its regular duties of preparing monthly crop estimates. Care was taken to incorporate in the bulletin all of the county figures revealed by this state census, as it is the only source for county agricultural statistics. These county figures are an important part of the basic information utilized by the State Department of Agriculture, the agricultural college and experiment station, the State Farm Bureau, other cooperative farm agencies as well as the public in general, in the prosecution of their respective functions for the upbuilding of Michigan agriculture.



Sister Pigs Fed the Same, Except the Smallest One Got No Milk.



There are ways to make every foot of lumber count, methods of building that save a lot of carpenter work. Floor space and mow room can be economized or wasted. Some types of construc-tion are more economical than others, more healthful for the herd, conducive to greater production. Hundreds of hours of barn work can be saved every year—or not saved—depending on the plans.

From our many years of experience in helping plan more than 15,000 barns, of all kinds and sizes, we have compiled a 112-page book chock full of valuable building information—for farmers who intend to build or remodel.

Experts Will Help You Plan Your Barn

When you figure on any barn improvements, regardless of what they are, you should have a copy of this Louden Barn Plan Book at your elbow. In case any special information is desired our Barn Plan Experts will further assist you by working out suggestive plans and sending you blue-prints, free of cost, taking into account your own particular conditions and requirements. They can also show you how to include ideas of construction and arrangement which, with a moderate investment in labor-saving barn equipment, will enable you to cut out fully half your barn work and greatly increase the earning capacity of your herd.

Save Time-Save Steps-Save Work-Save Money

William Louden's long and useful lifetime has been devoted to designing and building equipment that saves time for farmers and takes drudgery out of barn work—that increases the comfort, health, and productivity of cows. It has been his pride to build this equipment so practical, so convenient and so strong that it lasts as long as the barn stands and gives years of daily, satisfactory service.

Our Barn Plan Department was William Louden's idea. He wants farmers everywhere to have free benefit of the practical knowledge gained in our many years of planning and equipping thousands of barns for other farmers. Write us today, stating the size of barn or nature of remodeling you have in mind, number and kind of stock you wish to house. Our Barn Plan Experts will prepare blue-prints and make suggestions—without cost or obligation—that will save time, steps, work and money for you. Fill out and mail the coupon now.

The Louden Machinery Company

1933 Court Street (Established 1867) Fairfield, Iowa Branches: Albany Boston New York Philadelphia Chicago St. Paul

William Louden

His invention in 1867 of the first hay carrier made possible two-story barns. Later on his origination of modern steel stalls and stanchions made pos-sible the clean, comfortable and sanitary dairy barns now seen on every hand.

Get These Two Helpful, Money-Saving **Books Today**

Louden Barn Plan Book. 112-page encyclopedia on barn building. Pictures 50 up-to-date barns with suggestions for best arrangement, most economical construction, wall-framing, types of roofs and greatest mow capacities. Chapters on foundation work, cement, ventilation, size of barn— in fact everything a prospective barn builder should know.

Should know.

Louden 224-Page Catalog. Illustrates and scribes 100 labor-savers for the barn. Louden Steel Stand Stanchions, Manure and Feed Carriers, Water Bo Animal Pens, Manger Divisions, Hog House Equipm Barn and Garage Door Hangers, Cupolas Ventilators, Staffs—"Everything for the Barn." Only A-1 qualibuilt into Louden Equipment. First cost is low, an you measure long years of satisfactory service Loudalways costs the least.



How Much Money Did You Make Last Year?

Do you know? Did your last year's work show a profit? Accurate accounts are as necessary in farming as in any other business. The Papec way is simple and easy. A few entries daily in our Farmers' Record and Account Book will show you where the money goes and what returns it brings. There are 50 pages for accounts, inventories, breeding records, useful tables, etc. FREE If you own a FREE silo or intend to build one this year, write us stating its size, also the name and adaptate of your dealer. We

The 1923 At a New Low Price

The new Self-feed Third Roll entirely does away with hand feeding. The new elastic Angle-steel Link Belt assures positive action—and will retain its shape for years. These and other improvements make the 1923 Papec the finest and best Ensilage Cutter ever made, regardless of price. Yet we are offering this splendid new model at a substantial reduction. Your dollars go farther when invested in a Papet. Four and 19.

Our Catalog tells all about the 1923 Papecshows how it will pay for itself in from one to two years. Write for it today.

PAPEC MACHINE COMPANY
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'56 Distributing Stations Enable
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Man



Big Money In Custom Sawing for your neighbors, made in severa is ize suitable for tractors of any size. Also Edgers, Planers, Lath and Shingle machines. Write for free Catalog, B-8. R. R. HOWELL & CO., Mfrs.

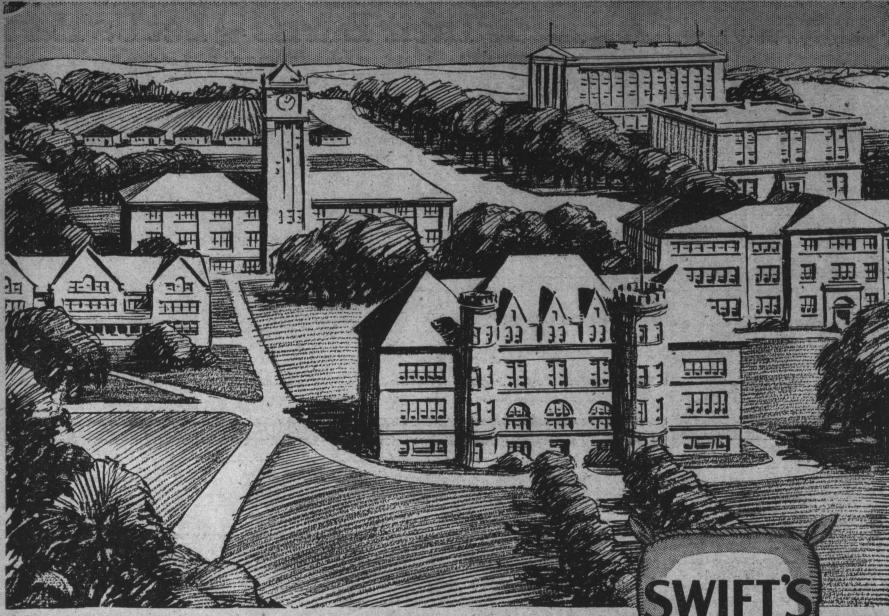






Virginia Farm lands can be bought for the interest be bought for the interest many pay on mortgages. Mild climate, good soil, and nearby markets. (Save freight) Write for new Handbook which gives details of opportunities for Stock Raising, Dairying, Fruit Growing, Poultry Rais-ing, and General Farming. G. W. KOINER, Com. of Agr.

Mention The Michigan Farmer When Writing Advertisers



Let your agricultural college help you make farming more profitable

The farmer who attempted to justify his methods by boasting that he already had "worn out three farms" has given way to the farmer who takes pride in his ability to "build up one farm".

Back of the present-day farmer is an institution—the State Agricultural College and the State Experiment Stations—which is helping you, directly or indirectly, to build up your farm and to make your farming operations more profitable.

Its buildings have been built with state money. Its scientific men are paid by the state. Its experiments, its soil and crop researches, its discoveries, are made in your behalf. It has trained your county agent, and many of the young men and young women of your community, in the science of profitable agriculture.

Make use of it yourself

Make use of it—it's yours. Send to it for crop bulletins. Refer your farming problems to it. Get its advice regarding the crops and methods of fertilization which will pay you best. Plan to send your sons and daughters there—that they may return equipped to make the old farm pay greater profits.

In your county is another factor—the Authorized Swift Agent, the man or firm selected by Swift & Company, after investigation, to supply the Swift's Red Steer Fertilizers required by your com-

munity—who wants to help you make farming more profitable.

With information derived from the experiment station, he will advise with you regarding your crop and soil requirements. He will help you to grow more on less land, to increase your acre yield, to make the extra money required to send the boys to college or to give to your family the comforts and conveniences they would so much enjoy.

Get acquainted with this man

He recommends Swift's Red Steer Fertilizers because he knows "it pays to use them"—and because he knows that back of every bag he sells are the vast resources, the supplies of raw materials, the manufacturing skill, the chemical and agricultural knowledge, of Swift & Company.

He knows that Swift's Red Steer Fertilizers are high in available plant food; that they contain the right elements for each crop; that they are accurately and uniformly mixed; and that when properly applied they will return the farmer's investment many times over.

Get acquainted with the Authorized Swift Agent in your town. Get acquainted with him now—it will pay you. If you cannot locate him readily, write our nearest sales division.

Swift & Company
FERTILIZER WORKS, DEPT. 42
Hammond, Ind.



A. S. A. says:

The State Experiment Stations are certainly doing good work in helping the farmer to decide the fertilizer analyses he should use to make the most profit.

Agronomists from Indiana, Michigan, Missouri, Ohio and Wisconsin Experiment Stations recently agreed on a list of high analyses which they now recommend. Swift & Company is backing up their recommendations and, as the Authorized Swift Agent, so am I.

These agronomists know that high analyses fertilizers give you the most plant food for your dollar. You save the cost of extra freight, labor, bags, etc.

Come in—you and I will decide on analyses of Swift's Red Steer Fertilizers which meets the needs of your soil and crop and conforms to the list selected by our Experiment Station.

asa.

WORLD EVENTS IN PICTURES



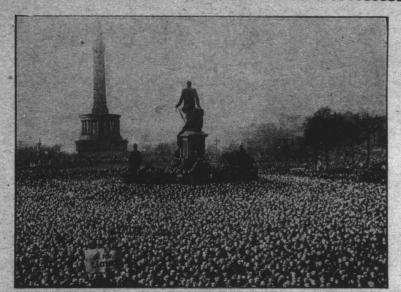
Jackie Coogan watches his dad sign a \$500,000 contract for producing movies with the Metro people. Jackie's mother is at his left.



The American doughboys in the Y. M. C. A. "hut" at Ehranbreitstein, known as the Gibraltar of the Rhine. These boys have all left for home.



Only confederates under arms. Co. B, Nashville Tennesee, part of Tennessee National Guard.



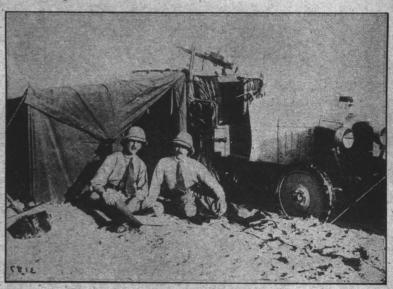
A mass meeting of Germans by Bismarck's statue in Berlin in protest against the French occupation of the Ruhr. The monument in the rear is the Victory column.



Bobbie Hearn and Hilda Ruckert in an "anti-classic" skating stunt at Saratoga Springs.



The French marching through the streets of Essen in the Ruhr district, upon their taking possession of that important German industrial center.



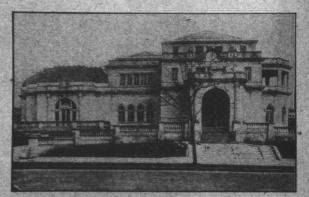
Autoists are replacing camels in travel on the Sahara Desert. Four French-made machines with caterpillar traction made the trip in twenty-one days.



The largest and smallest chickens ever shown at the New York Poultry Show. One weighs 12 ounces and the other 18 pounds.



Doris E. Hyde, three years old, who was adjudged the most beautiful child in Canada.



House which Mrs. J. B. Henderson, wife of the late senator from Missouri, offered to government for the vice-president's residence.

The Adventures of Hiram Masters By LEROY W. SNELL

office and walked slowly along village street. It was a warm, sunny morning and the dry-weather flies were pouring forth their seething kitchen door the while: song from the tree tops. The streets at this hour showed but little activity. An occasional farm wagon heavily laden, rumbled into the village and on through to the elevator or mill beyond. jest zactly able to work today, but A crowd of boys passed with fish poles and tomato cans of worms, and across come up an' split that wood fer ye." the street Miss Abigail Holmes flutter-

"Humm! Bound to find out what Sarah's going to wear, also what's in the suitcase," ruminated the doctor.

He stopped by a fence and watched for a few minutes, Silas Herring lazily tinkering an old box in the back yard. Over there the folks are going "Morning Sile," he called.

"Morning, Doc," said Silas, looking up and laying down his hammer and shuffling over to the fence.

"Goin' to the weddin', Doc?" he

"Yes, thought I'd better see the knot "Say, Doc, ain't got a hoss you want-

er trade have ye?" "No, guess not," laughed the doctor.

"Horse trading this morning?" 'Mote if I seed a chance. Got a right smart hoss, Doc, and gentle. He

wouldn't hurt nothin'."

"Gentle as a hornet, eh, Sile?"

"No, honest to God, Doc, she's gen- doctor asked, a twinkle in his eye. tle. Why, say, 'tother day I got plum disgusted with my wimmen folks. Yes, sir, Doc, an' I says ter myself, says I, 'Sile, you'd be better off dead,' says an' flops right hown under this 'ere hoss, Doc, an' honest to God, the fool critter wouldn't step on me, honest to God."

"All right, Sile, don't doubt your ing the steps. word, but I'm not trading this morn-So saying he started to move on. "Say, Doc," Sile called after him,

"No, thank you, Sile, not today."

"Ner whips, ner robes? I got a right good blanket, Doc."

"No, Sile, this is not my trading

"Don't reckon Masters' 'ud be wanting a trade, do ye?"

back from his wedding trip, and maybe you can trade women with him if blinded him. you give him a little boot," laughed

has ter come my way when I trade. down in his arm chair, dressed in shirt surprise and ill-concealed excitement

Doctor Stoddard left his little Then as the doctor moved away, Silas gloom written upon every feature. again called to him. The doctor paused and Silas, shuffling along the fence, was going to be a funeral instead of a train pulled out, a thick-set man with said low and guardedly, eyeing his

"Say, Doc, ain't got a dollar ye could let me have, have ye? My women about they ain't got no flowr. I ain't peeved at something, too." soon's my back gets a little better I'll Helen. If I won't he's going to leave

"Where you going fishing, Sile?" the live, and won't neither of 'em come

wedding. What's the row?"
"Him," pointing towards the door. "Didn't you meet him?"

"Oh, you mean John. Yes, I ran folks been pestering me all morning into him at the gate. Seemed rather

> "Yep, wants me to deed the farm to the farm and take her to the city to

PON the morning of the wedding, Boot al'as has ter come my way." and trousers and slippers, with abject the appearance of a tall thin man clad in black, descending from the steps "Cheer up, man, you look as if it of a rear Pullman and, just before the a long-visored cap pulled down over his eyes, swung easily from a forward smoker.

As the village of Truxton dropped from sight, so, too, there fell from Hiram and Sarah the shadows of the past years; years of loneliness and self-denial for Sarah, and for Hiram years of bitterness and wounded pride. It was like sailing out of a mist and fog into the bright sunshine.

New scenes, new sights, new acquaintances upon the trip awakened their keenest interest. The summer fields and vineyards, the wooded hills, towns, villages and smoking cities, and at last the dashing, whirling waters of

There they spent two happy, joyous weeks and then one day, tired of sightseeing and eager for the home journey the bride and groom arrived at the depot a full hour's time for the train to take them back to Truxton and the little white cottage which they were to call home.

Hiram sank wearily into a station seat and unloaded the bundles and grips upon the floor and the seat beside him, while his wife sought the women's room to freshen up and whisp away the last traces of the city's dust before boarding the train.

How long she had been gone Hiram did not know, for he was interested in watching the throngs of people hast-"No, sir! He kin have the use of ening in and out from the big gates the farm just as he's been a doin', and which lead to the trains. A well-dressall that he can git out of it as long's young man sauntered up to his seat and sat down beside him. At first Hir-But I don't part with the deed fer any- am failed to notice him, but when he body as long as I live." So saying did he found the stranger eyeing him

"Stranger, I'm up against it, lost my money last night playing poker at the hotel, and now I haven't enough to get home. All I got left is my watch, and I wonder if yu'd like to buy it for about half what it cost." So saying he produced a small chamois bag from which he took a beautiful gold watch. This he handed to Hiram, who looked it over, and saw that it was of a wellknown make, and asked curiously the

"Cost me fifty dollars not a month and Sarah boarded the train and were right now, but I'm in a hurry and must catch a train."

"Don't know's I need Those who were left to wave good- watch," said Hiram fingering his vest

The stranger noted the movement

OVER THERE.

By Al. Rice

Where the oranges are growing And the ocean breeze is blowing Ev'ry where.

And, perhaps, they've had a vision Of the realms of bright Elysian, Over there.

Over here, where we are native, There're no breezes, health creative, And no elixir, sedative,

In the air. Fancy paints a picture fairer Where the atmosphere is rarer Over there.

Over there they have no freezes Borne upon the Arctic breezes Where the whooping cougher sneezes In despair.

In the land across the mountain Age has found a youthful fountain, Over there.

Over here we have our troubles, When the wheat is only stubbles. And our hopes have turned to bubbles, In the air:

But remember this, my brother: There are draw-backs in the other, Over there.

"Well, boys say they're biting right yes." smart down by the dam, but I wouldn't go if I was able to work. Back's awful lame. Can't hardly straighten up," I, 'an' so'd your folks.' So I goes out then, "Thank ye, Doc, thank ye," as the doctor slipped him a silver dollar and passed on down the street.

As the doctor neared the Masters'

"Hello, Jim!" greeted the doctor. "Fine day for the wedding, eh?"

"Oh, H-1!" snarled the other, and "Don't want to trade buggies neither, turned away, muttering to himself.

moment, then turning in at the gate, checkers before the march begins." traversed the little board walk and rapped at the door.

'Come in." called a voice, and pushing the door open, he entered.

For a moment he stood blinking, for the change from the bright sunshine "Not today, Sile, wait 'till he gets of the out of doors to the shaded room byes and God-bless-yous said, Hiram ago, but I'll let you have it for twenty with its tightly drawn curtains almost

> Soon, however, his eyes became ac- Falls. customed to the room and his gaze

nigh the wedding today less I say

"I suppose you did it."

he keeps up the repairs and taxes. cottage he saw John Welling descend- Hiram brought his fist down onto the closely, then leaning close said: chair with a resounding whack.

"All right, all right! I think you're doing the right thing, but don't let them spoil your wedding day or Sarah's. Get into your Sunday duds and The doctor stared after him for a we'll have just time for a game of

> An hour later a little group of people moved slowly and with stately dignity down the shaded village streets, stopped for a half hour at the parsonage, thence onward to the station.

As the train came to a stop, goodoff on their honeymoon trip to Niagara

"No, sir; not me, Doc. Boot al'as fell upon Hiram Masters, slumped bye from the platform noticed with pocket.

AL ACRES—Al's Maple Syrup will be High this Year if He Charges in His Overhead.

-By Frank R. Leei



and snatched the watch eagerly. "Let; me put it in the case," he said. "Quick, there, they are calling my train."

Hiram hadn't heard any train called, but following the stranger's glance he saw a policeman coming in their direction from the other side of the station.

His fingers came out of his pocket slowly and between them a folded slip of yellow, showing in the corner the figures \$20. The stranger snatched the slip, thrust the watch into Hiram's hand and was gone before Hiram could say a word.

The policeman came up on a run.

"You poor rube. Did you buy anything of that fellow?" he exclaimed.

"Looks like I'd bought somethin'," Hiram replied.

"Why, you poor fish, that fellow is a shark! He makes his living skinning rubes. What'd he sting you for?'

"Well, he said as how he'd lost his money and wanted to sell me his watch."

"Fake watch."

"Well, it looked real purty," said Hiram.

"Yes, but you don't think you got the one that he showed you, do you? Look at it."

With this Hiram slowly slid the watch out of the case to find in his hand a cheap brass case with no works whatever.

"Well, I swun," said Hiram. "He sure was a slicker."

"Yes, and you're a sucker. What'd he rim you for?"

"Well," said Hiram, "he didn't wait to rim me, he was so anxious for a sale that he snatched a twenty right out of my hand."

"A twenty, eh?"

"Yep, a twenty dollar gold certificate; good in trade at the Truxtom Emporium to apply on a Farnum hay loader, if ordered before last May."

"Phony money?" exclaimed the policeman.

"Wall, kinder funny money, I'd say." "Hump, guess you ain't so green as you look. Where you going?"

At Hiram's reply the policeman exclaimed:

"That's your train now; you better get a hustle on, you've only got about three minutes," whereupon Hiram gathered together his belongings and fled through the gate, boarded the train indicated by a red-cap.

When finally settled in a seat he experienced a peculiar sensation. It seemed to him as though he had forgotten something, then the remembrance came over him of how he had bested a regular slicker of a city feller, so he chuckled to himself and gazed interestedly out of the windows as the train pulled slowly out of the station yard and, gaining speed, slipped faster and faster till leaving the city behind it, sped along past farm and vineyard, and wooded hill toward home. Home! Home! Home!

"Thunderation!"

Hiram sat up. A cold chill passed up his spine. Home? And where was Sarah? Then he was soized with a panic. He raced through the car, found the conductor and pleaded to be let off at once.

That official surveyed him calmly.

"Forgot something?" he asked. Hiram gulped. "Yes, you see, some thin' important!"

"Well, this train stops for five minat rails view and it it's important enough you can hire a taxi to take



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RATES For Real Estate Advertising
On This Page

35c a line per issue on 4 time orders 40c a line per issue on 1 time orders pecial discount given when used in combination with 7 other Capper Publications. Write for becial real estate advertising rates on these papers which reach over a million and a half families

Additional Poultry Ads. on Page 203 PAY NO ADVANCE FEE; don't give option of ne up real estate for any kind of contract without first know ing those you are dealing with are absolutely honorable, re-sponsible and reliable.

\$1000.00 SECURES 60 ACRES 2 COWS, 2 HORSES.

ant enough you can hire a taxi to take you back from there.

The train had no more than come to a standstill when Hiram was out and bargaining for the return ride. This over, he clambered into the taxi and was soon whizzing back to Niagara.

(Continued next week).

3 brood sows, 75 hens, heavy harness, farm tools, etc.. 46 ares rich productive dark loan tillage, 14 acres pasture and woodlot, in beautiful farming district. 3% miles to town with all advantages, mallelivered, telephone, cream collected at door, fruit from the common telephone, cream collected at door, fruit from the common well water pumped by wind-mill, maple shade, barn ties 8 head, half basement, emented. 2 poultry houses, hog house, granary, tool shed. Make this your farm home and enloy prosperly and contentment, Price \$5000.00, only \$1000.00 down, balance easy terms. Shown by Ray I. Thompson, Charlotte, Mich., or see Michigan Farm Agency, e28 Ford Building, Detroit.

The greatest thing in the world is for a man to know how to be his own—Montaigne.

\$100 DOWN, balance ton years, wisconsin for home. Big markel, sure crops, grain, clover, fruit, garden, dairy. No drouth, sand, swamp, rock. Free fuel. Health pure water, Write now. Owner, but the control of the control of

FARMS New Catalog

time; hundreds of farms of all descriptions at bargain prices. See page 17 for 58-acre Michigan farm for \$600 down; on improved road, hahdy village, 35 arres tillage, good orchard; comfortable house, barn, poultry house. Age forces sale; furniture, organ, horse, poultry, full implements included, all \$1200. Productive 62-acre Michigan farm described page 18; horses, cows, poultry, sows. 15 pigs; city markets; all tillable; variety fruit; 9-room house, 85-ft. barn, silo, poultry houses; all \$4000, only \$1200 needed. Then on pace 29 comes 195-are So. Michigan farm; 120 acres tillable; variety fruit; new 2-story 7-room house, furnace, bathroom; 100-ft. barn, silo. Retiring owner's low price \$13,200, horses, 8 cows, full implements, tools, etc., included, only \$2000 needed. Hundreds of bargains throughout Michigan, Illinois, Indiana, Ohio; 29 other states and Canada—shock, furniture, tools, seed included—ready for springs planting. You can save time and money through this big helpful book. Copy free. Write today. Strout Farm Agency, 427KH Marquette Bldg., Chicago, Illa.

Wanted To hear from owner of land for sale

FOR SALE—Improved stock and grain farm of 160 acres, all level, some timber. Best of soil, 1½ miles from good railroad town on State Pike. 2½ story house, furnace, tollet, bath, Large bank barn, other buildings, all fenced. Young orchard, Near school. No encumbrance. A. J. BRENISER, Oneway, Mich-

For Sale 500 acres in Lake Co., Mich, 100 improved, 2,500 cords of wood. House, barn, silo, fine for cattle or sheep. Well watered. \$7,500. F. P. Arthur, Ann Arbor, Mich.

Wyoming Agency Dry and Irrigated Ranches, Chicken. Dairy and Stock Farms, Homestead Refindularmen, Cheap. Trades, City Lots, Stores, Summer Homes, I Mi. Mts, Licensed and Bonded Dealer, Glendo, Wy

Buy a Farm in the great fruit and farming of Northwest Arkansas where land is cheap and terms are reasonable. For free literature and list of farms write J. M. Doyel Mountainburg, Arkansas.

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

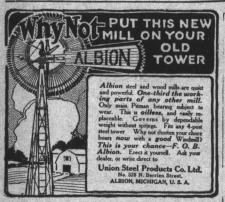
Poor Man's Chance \$5 down. \$5 month-ly buys 40 across productive land near town. Some timber. Price. \$225-Other bargains. Box 425-Z. Carthage. Mo.

80 Acres Improved 365 per acre \$1000 cash. 160 acres Improved \$67.50 per acre \$1000 cash. THE ALLEN COUNTY INVESTMENT CO., Iola, Kansas.

Good 80 Acre Farm for sale, Nearly level Heavy soil on main road.
Bargain LEA SEATON, Fenton, Mich.

Additional Farm Ads. on Page 247









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Profit by adopting the GRIMM SYSTEM
ctional pans with high par-itions. Light and
any cannot intermix, insuring highest
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Samples &

Roofing Book

Sudden Conversion

Our Weekly Sermon-By N. A. McCune

subject. Volumes have been written on it, whole libraries and miles and miles of sermons have been preached on it. We do not hear as much of it of late years, and that I think for a ago several prominent ministers began to appreciate the fact that there is a vast deal of injustice and inequal-They took to studying the prophets, mers, Newman and Tolstoy." and then the teaching of Christ, and became convinced that the Bible teach-

> to come in society by a gradual peace, righteouson the earth. This conviction on the leaders has grown by leaps

and jumps, and is now one of the settled principles of the modern church, although many church members are still asleep on the question. Naturally, way, and this brand of pulpit discourse will undoubtedly increase rather than lessen, in the future. This is one big reason why so much has not been heard on the matter of individual conversion the past few years. Many leaders have felt, and feel now, that there is no justification for the church, involve. if she cannot produce a more Christian social order.

But let no one be alarmed. This does not mean that individual conversion is to be no longer believed and taught. No. Rather the opposite. We now see that if there are no converted persons in the world, a Christian social society would be impossible. As Bernard Shaw, I think it is, said, we cannot get a Christlike world until we get a world of Christs. Moody the evangelist put it in his characteristic way: "If you want good water, it is not enough to paint the pump-you must clean out the well." Or to phrase it in more literary style, we might quote Herbert Spencer: "There is no political alchemy by which you can get golden conduct out of leaden motives." Conversion is possible. Moreover, conversions are taking place all the time. Sudden conversion is possible, though it may not be as common as it was once. One mistake we must not make. We must not be set or narrow about it, and say that one kind of conversion only is good, and all others are spurious. Some folk will declare that if you cannot name the day and hour claring that growth in the Christian graces is always gradual. Both of these extremists are wrong in their after this he fell, and got thoroughly criticism. God is not confined to any drunk. "Well, what did I do. I comone method of doing business. When forests are slashed away, and the maple and beech and oak are gone, poplars come up and elms and other second-growth wood. God does not paint the same sort of a sunset every night.

C ONVERSIONS, both sudden and gradual, can take place. Says the author of "The New Life," (a sweet little book, written by Dr. Samuel Mc-Comb-a good birthday gift), "The prejudice against the possibility of a sudden conversion springs from lack

HE lesson for this Sunday is en- of insight into the power of religion titled, "Jesus and Zacchaeus," and into nature of the human and is a lesson on conversion; mind. However, we may account for and not conversion alone, but sudden the fact, it has been abundantly provconversion. This is an engrossing ed that there is such a thing as the 'soul's leap to God' in which time is a mere irrelevance. This experience has been shared not only by the ignorant and the outcast classes who have led wicked or careless lives, but has markvery good reason. About twenty years ed an epoch in the careers of some of the greatest and most influential men, such as Paul, Augustine, Luther, Cromwell, Savanarola, Ignatius Loy ity in society, business and industry. ola, Wesley, Schleiermacher, Chal

Here is a shortened account of a graduate of Oxford University, Enges without quali- land: "I was converted in my own fication that the bedroom in my father's rectory house kingdom of God is at precisely three o'clock in the afternoon of a hot July day. I was in perfect health, having been off drink for process. Justice, nearly a month. I was in no way troubled about my soul. In fact, God was ness, good will, not in my thoughts that day. A young are to yet reign lady had sent me a copy of Drummond's Natural Law in the Spiritual World, asking my opinion of it as a part of religious literary work only. I took the book to my bedroom for quiet, intending to give it a thorough study, and then write her what I thought of it. It was here that I met God face to face, and I shall never forget the meeting. 'He that hath the Son hath life, and he much preaching has been directed this that hath not the Son hath not life." I had read this scores of times before, but this made all the difference. I was now in God's presence and my attention was absolutely 'soldered' on to this verse, and I was not allowed to proceed with the book until I had fairly considered what these words really

ONLY then was I allowed to proceed, feeling all the while that there was another being in my room, though not seen by me. The stillness was marvelous, and I was supremely happy. It was shown me, in one second of time, that I had touched the Eternal, and that if I had died then, I must inevitably be lost. I was undone. I knew it as well as I now know that I am saved. What could I do? I did not repent, even; God never asked me to repent. All I felt was, 'I am undone, and God cannot help it, although He loves me.' My doom was sealed. I was lost to a certainty. Then there crept in upon me so gently, so lovingly, so unmistakably, a way of escape, and what was that, after all? The old, old story over again, told in the simplest way: 'There is no name under heaven whereby ye can be saved except that of the Lord Jesus Christ.' No words were spoken. I seemed to see the Savior in the spirit, and from that hour to this, nearly nine year now, there has never been in my life one doubt that the Lord Jesus Christ and God the Father both workwhen you felt the new life coming in, ed upon me that afternoon in July. I your conversion is worthless. Others, rejoiced then and there in a converbelittle a sudden change of heart, desion so astounding that the whole village heard of it within twenty-four hours." He then tells that shortly mitted myself to Him in the profoundest belief that my individuality was going to be destroyed, and that he would take all from, and that I was willing. In such a surrender lies the secret of holy life.

SUNDAY SCHOOL LESSON FOR FEBRUARY 18.

SUBJECT:—Jesus and Zacchaeus, Luke 19:1-10.

GOLDEN TEXT:—The Son of man came to seek and to save that which was lost.

RURAL HEALTH

By Dr. C. H. Lerrigo

LAGRIPPE IS INFLUENZA.

C EVERAL subscribers have written to know the difference between lagrippe and influenza. There seems to be a general opinion that the two ailments are quite different and that one may take liberties with an attack of lagrippe that would be quite unsafe with influenza. The fact is that the difference is in name only; the ailments are identical in cause and in

The people of America had a severe lesson as to the terrible power of influenza, in the year 1918. It is safe to say that it rivalled the ravages of the great plague of London that is given such a prominent place in the history of epidemics of disease. But it is well to know that the same disease comes to us year after year, and it is capable of the same deadly work, even though, during certain seasons, it does seem to be of a milder type. Lagrippe, grip, flu, Russian influenza: no matter what the name, all of them mean influenza; and influenza is a disease that must always be treated with the greatest respect.

It must be remembered that influenza is à disease that resembles diphtheria in the important respect that it generates poisons having their effect on the entire system, but especially upon the heart. A person having what is so often described as a "touch of the grip" will often make light of the trouble, try to continue at work, and perhaps manage to do so. What harm is done?

First of all he does harm to those with whom he comes in contact, for influenza, no matter how mild the type, is always contagious. Then he really loses time. He may not feel very ill, but he lacks "pep" and his work is bound to be of poor quality. He drags around for a period four times as long as would have been necessary had he gone to bed for a couple of days at the start of the trouble. All this time he is overworking a heart that is feeling the poison of influenza, making it work when it should be resting. It is at such times that the foundation is laid for chronic heart trouble that appears in later years.

Moral: Don't trifle with an attack of influenza, no matter under what name it is disguised. Go to bed until you have won the battle.

PAIN IN BACK.

Would cutting hair relieve pain in back over hips? Have been bothered for some time with pain there. It still pains even after I get hair done up. Please advise me as I have tried several things but get no relief. Hair is thirty-six inches long.—E. M. M.

I do not think your hair is to blame for this trouble in the back. Have a Collection more thorough examination and you will detect the real offender.

STIFF NECK.

pain in the back of my neck. There is pain upon pressure at the base of the skull. Have tried all kinds of dope, both internal and external, but nothing helps.—Mrs. A. T. W.

This ailment, the medical name for which is Torticollis is very stubborn to treatment. It may come from an injury to head or neck, but sometimes it simply follows exposure to cold, developing the "rheumatic type." If there is any probability that it is due to injury the first thing to do is to get an X-Ray picture. If not likely to be injury I should see what an osteopathic physician could do.

FIFTY-FIFTH ANNUAL STATEMENT OF THE

Michigan Mutual Life Insurance Company

FOR THE YEAR ENDED DECEMBER 31ST, 1922

PAID-FOR BASIS

ASSETS	
Cash in banks	\$ 150,919.47
First mortgage liens on real estate	12,560,628.75
Real estate	106,266,71
Amount invested in new Home Office Building	475,000.00
Loans to policyholders, secured by reserves	2,651,854.65
U. S. Government Liberty Loan Bonds	327,512.00
State of Michigan War Loan Bonds	35,000.00
Interest due and accrued	272,736,83
secured by reserves	213,172.03
Total Assets	\$16,793,090.44
LIABILITIES	
Reserve fund (including disability benefits)	\$15.322.484.53
Premiums and interest, paid in advance	29,792.23
Installment policies not yet due	74,136.39
Other policy claims	74,050.54
Accrued taxes, salaries and expenses	92,325.64
Surplus	1,200,301.11
Total Liabilities	\$16,793,090.44
Insurance written during 1922	\$21,039,754.00
Total Amount of Insurance in force December 31, 192	2. 97,739,014,39
During the year 1922 the Company paid death claim	s
amounting to	
Paid to Living Policyholders	896,571.29
Total amount paid to policyholders since the organ	iza-
tion of the Company	36,250,693,62
	00,200,000.02

A RECORD OF ACTUAL RESULTS WHICH SPEAKS FOR ITSELF

The Michigan Mutual Has Some Lucrative Field Positions Open for Men of Integrity and Ability.

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Maple Syrup Cans
SQUARE cans with 14" screw cap. Gallon size
\$8.50 for carton of 50. Half gallon size, \$12.00
for carton of 84. Quarts, \$7.00 for carton of 90.
Add 10% to rate in less than carton lots, or deduct 10% in five carton lots. Prices f. o. b. cars Lansing. Immediate delivery.

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RY a Michigan Farmer Classified Liner. They bring results.

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applied at the rate of five pounds to ten pounds per tree in the spring, before blossom time usu-ally represents the difference between a profitable crop of

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and a poor crop of culls. Reports of experiment sta-tions and practical horticulturists all over the United States bear out this statement.

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Meantime send for my free Bulletin Service which is full of practical information on growing of all gropes. ing of all crops.

Dr. William S. Myers, Director Chilean Nitrate Committee 25 Madison Avenue, New York

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Accept "Bayer Tablets of Aspirin" only. Each unbroken package contains proper directions. Handy boxes of twelve tablets cost few cents. Druggists also sell bottles of 24 and 100. Aspirin is the trade mark of Bayer Manufacture of Monoaceticacidester of Salicylicacid.



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Woman's Interests



A Congress for Housewives

What the Women Folks Listened to During Farmers' Week

ARGE crowds attended the meetings of the Housewives' Con-Farmers' Week.

The programs, which extended over ments are determined. four days, were presided over by Dean Louise H. Campbell, Mrs. Dora Stockman and Miss Edna Smith.

ing, Miss Bess Rowe, field editor of quirements. By experiments conducted the "Farmer's Wife," gave the results in a boys' school, the children were to Marry a Farmer?" Of the thouexpressed a vigorous objection to the farmer as a husband. Michigan wom- absent in the diet. en sent in 413 letters, with 7.2 per cent on the negative side. Most of the letcommunities bordering the larger industrial centers of the state, and those nearest the lakes.

One Michigan woman who was awarded one of the prizes, said that "any farm woman who works sixteen hours each day may know that the She would do the same thing in the country, and were able to contrast the two intelligently.

ed that the farm home be kept happy and prosperous.

She showed that the farm home is peared. supplying the increase in both farm mother and father determine the thought, ideals and standards of urban thought, ideals and standards of urban sence of C leads to scurvy.

and country life. She declared that if Miss Mary Keown, assistant secrethere was a God.

They would need an Elijah to prove there was a God.

The chief reason for unhappy marriwithin four generations.

Frysinger said that more stress should veloped, give settings that are superier to any to be found in the most

By Isabell Taylor

see the way in which food require-

Dr. Dye reviewed the essential foods habits and activities of people, and At the first meeting, Tuesday morn- age cause a wide variation in food re-

Vitamines came in for their share sands of letters received from all parts of discussion, and Dr. Dye explained of the United States, only six per cent, where they might be found, and what

Fat soluble A, the first vitamine, is present in cod liver oil, in butter fats ters expressing discontent came from and in leafy vegetables. Water soluble B is present in yeast and in whole grains, vegetables and fruits. Water soluble C is present in all citrus fruits and in some vegetables.

The absence of vitamine A in the Is marriage a failure? Decidedly no, I should say, I should say, Though many things there are that make it appear that way.

Send all autos to the moon, never to diet leads to serious eye trouble, known as xerophthalmia. This is rarefault is with herself and not her work. ly found in human beings, but was very prevalent during the war in Eu-Most of the women contestants rope. The Balkan children suffered just because some drivers with them have jumped the track?

Most of the women contestants rope. The Balkan children suffered just because some drivers with them have jumped the track?

Away with all schools; we're better off without, you see, the relief commission obtained a large some missed their calling when supply of cod liver oil, they made the supply of cod liver oil, they made the supply of code in the war in Edit of the women contestants rope. The Balkan children suffered Just because some drivers with them have jumped the track?

When the women contestants rope. The Balkan children suffered Just because some drivers with them have jumped the track?

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When the women contestants rope. The Balkan children suffered Just because some drivers with them have jumped the track? had lived in both the city and in the most from its ravages, and great num-Miss Grace Frysinger, field agent in supply of cod liver oil, they made the extension methods of the United children take a spoonful before every States Department of Agriculture, urg- meal, and although they objected, the members of the commission remained firm, and the eye trouble soon disap-

The elimination of vitamine B from Soon naught but wild animals would be seen upon this earth. and city population, so that the farm the diet brings about Beri-Beri, which is prevalent in the Orient, and the ab- And perchance some so-called human sence of C leads to scurvy. sence of C leads to scurvy.

the cities, urban life would die out chine Manufacturers' Association, who was formerly engaged in home eco-In deploring the ugliness frequently nomics work, gave a lecture on launassociated with the farm home, Miss dering in the home. In a recent sur- Which is most to blame, the woman vey, Miss Keown said, it was found be placed on the economic side of that ninety-six per cent of all the launbe placed on the economic side of that ninety-six per cent of all the launfarming, and that the homes should dry work of the country is done in
be beautiful on the inside and the outside. The natural surroundings of chiefly to new labor-saving devices
many farm homes, when properly demany many farm homes, when properly de- and to means of improving those already in use in the homes.

Miss Ethel Webb of the clothing debeautiful suburbs. She concluded her partment, gave an interesting lecture talk with the statement that the best on clothing selection. She stressed

for the younger woman, while the more mature woman will find long gress held at the Michigan Agri- in addition, conducted some calorimet- soft lines much more becoming. Warm cultural College in connection with er experiments so the women might colors, including orange, and red tend to make the figure look larger, while cool colors, blues, greens and lavenders tend to decrease size. The threeand explained how occupations, daily piece suit, with the blouse blending into the skirt, is the newest thing for spring.

The visitors at the college were given the opportunity to see the kind of of a contest conducted by that maga- found to need as much food as grown work the co-eds turn out. The clothzine on "Do You Want Your Daughter men, engaged in heavy muscular work. ing and millinery exhibit in Morrill Hall was the best one the girls have prepared. The cafeteria run during the week gave a good demonstration occurred to people when they were of the practical side of the work in cooking. Approximately 400 people were served each day during the week, and all of the work was done by the co-eds. Those in charge were seniors taking institutional management.

IS MARRIAGE A FAILURE?

come back,

Shall we from the million lovely cakes, forever turn our head

Because once in a while we see one heavy as lead? Failure? Suppose we have no more marriages, no children round the

ages, is love they lack. for charm, a home, money, disap-pointed then wish themselves back.

or the man? If we could see as God sees, methinks

run.

run.
But if in differences you can't meet half way and smile,
You'd better turn the other way and walk alone awhile.
We need the maiden lady, and the man without a wife

overflow,
And say that marriage is a failure. Mrs. B. W. Tracy, Paw Paw, Mich.

RAISIN FLUFF.

Two cups of sugar; half cup water; one stiffly beaten egg white; half cup chopped raisins; half cup of walnut meats; quarter teaspoon of vanilla.

Boil sugar and water until it threads when dropped from the tip of a spoon. Pour on beaten egg white and beat until it holds its shape. Add raisins, nuts, salt and vanilla. Mix well. Drop. from a teaspoon on paraffin paper and set aside until cold.



Seniors Proved their Culinary Art by Turning the Cooking Laboratory into a Cafeteria and Serving the Hungry Crowds.



Please don't compliment me on the cooking - you can thank my

RED CROSS RANGE.



alogue and free plan sheet.

It upholds a reputation of 60 years as the finest baking range in all the world—a deeper and extra roomy fire box; full size oven, scientifically ventilated and easily operated; convenient reservoir; high warming closet.

No wonder its record of uniform results appeal to the modern

A booklet "The Oven behind the Pie" is free for the asking.

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Always Sure to Grow colors. Describes standard and exc.
es: Strawberries, Blackberries, Raspberries,
es, Grape Vines, etc. Chock-full of valuable in for all small fruit growers. Tells about 'Col'
of the Canners and 'EATON,' the market Stata brings you \$1.00 more per crate. Unsurp.
quality, flavor, yield. Learn from experts "H.

"Learn from experts." In sure success—send posta-E. WHITTEN & SON, Box 14, Bridg





Washington, the Farmer

By L. B. Reber

EORGE WASHINGTON, Father T of his Country, first President of the United States, and Commander-in-Chief of the American forces, is known to every school child, but not very many realize also that he was proprietor of one of the largest farms in the country.

His estate was washed by ten miles of tide water. Think of one farm with a water frontage of ten miles. The farm was wholly self-supporting. The beef and dairy animals, the horses and mules, the sheep and poultry, all were bred on the farm. The clothing for the family and servants was made of wool carded, spun, wove and tailored on the farm. The shoes were made of leather produced and tanned, then fashioned into shoes and boots on the farm. Meal and flour was ground from home-raised grain and there was a surplus for export. So excellent was the flour that the barrels exported were never opened for inspection if they bore the Mount Vernon brand. Tobacco from Mount Vernon farm brought a premium on the London

Washington's breakfast consisted of three or four small hoe cakes, made of corn meal and baked in a skillet, and two small cups of tea. He personally looked after all of the work going on on the farm. He invented an improved plow and then helped his blacksmith construct it. When it was finished after two days of hard work, he hitched his carriage team to it and proceeded to plow up a field of old sod. He stood in a raging flood of water and directed the labor which succeeded in saving his flour mill from being washed away. He was his own game warden.

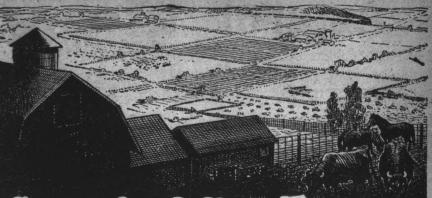
At one time a poacher kept shooting game out of season on the farm rough land. Washington caught him in the act. The poacher pointed his gun and threatened to shoot. Washington waded out to the canoe, grabbed the man by the collar, drew him back to land and then gave him such a sound thrashing that he never again appeared on the farm.

He was his own bookkeeper and his accounts were marvels of neatness and accuracy. He was county judge, a member of the House of Burgesses. He was president of a company which was chartered to drain a vast swamp, and Washington made the drainage survey. His system of canals are in use at present. They effectually transformed a dismal swamp into a rich agricultural region. There was rarely a time when guests were not being entertained at Mount Vernon.

A visit meant something in those days. Guests occasionally stayed as long as six months, and few stayed a shorter time than a week. At times there were nearly a hundred guests to be entertained. Think of that, you people who have the minister to dinner once a year.

There were no middlemen in Washington's farm dealings. When he shipped flour or tobacco, the chief exports of the farm, these products were shipped by whole shiploads which were loaded at the farm wharf. These shipments were made under his personal supervision and consigned in bulk to his agents in London. With the ship went a long list of articles to be brought back direct from London. Washington introduced the mule in Virginia. He was a believer in purebred stock and all his farm stock was "bred in the purple."

Now, friend farmer, just make a little mental comparison between your



Canada Offers Farmers their chance to get ahead

IF your hard work and investments are not giving you the return they should —if high land prices and high rentals are blocking your road to Success—if you are beginning to see how hard it is to compete with low-priced lands that are equally fertile, you owe it to yourself and your family to get the facts about farm opportunities in Canada. Lower-priced land—lower overhead—lower taxes and operating costs—may be the solution of your problem.

Low-Priced Land—the Secret

Virgin prairie land at \$15 to \$30 an acre, with long terms, if you want them, close to rail-vays and market towns, schools, churches, telephones, highways—these vast virgin prairies ffer you the last great farm opportunity. The fortunes of the United States were built on ow-priced land. Those lands are now dear—perhaps beyond your reach—but Canada's ands are still low-priced. You may have missed the first chance—don't miss the last.

Your Own Farm-Prosperity, Happiness

Prosperity, Happiness
The opportunity that fits your particular financial and family needs awaits your in Canada, and the Canadian Government Agent will help you find it. Land of great and continuous fertility, (Western Canada's wheat crop in 1922 was the biggest in history), land suitable for stock-raising, dairying, mixed farming, fodder crops, market gardening, to suit your experience and your pocketbook, Land that will pay for itself in a few years' crops; hundreds of Canadian farms have produced crops in one year worth more than the price of the land.

Rent If You Prefer—
Pay Out of Profits

The Canadian Government has devised a

The Canadian Government has devised a means by which you can "try out" a farm for a year or two before investing, and at the same time increase your capital for the day when you are ready to buy a farm of your own. Many Canadian land owners are willing to rent a portion of their holdings; others

are already retiring and will rent on easy terms, in some cases giving an option of purchase. If you have a farm outfit, or the means of buying it, even if your other capital is small, this is your chance to try out the country for yourself. Seeing is believing. See for yourself. A year or two on a rented farm may be the road to success. If you have present holdings which you cannot sell to advantage, hold them another year or two, conditions may improve, but start in Canada at once. Lands are being taken up; nothing is gained by delay.

Taxes Favor the

Taxes Favor the

Taxes Favor the Producing Farmer

Western Canada's tax system encourages farm production and the improvement of property. Taxes on an improved farm are less than on an unimproved one, and there are no taxes at all on the farmer's buildings, machinery, live stock, automobile, crops, or personal effects. Tax laws are designed to aid the farmer in building up a home of his own.

Get the Facts—Costs You Nothing

Mail coupon to Agent.

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REE HOMESTEADS are Il available in some localities canada welcomes Tourists

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STRAWBERRY ANTS The new Cooper Strawberry,

largest, sweetest and most productive berry known. One berry makes a big mouthful, 9 berries make a layer in a quart box, 400 crates per acre. Sells for a third more than other varieties. A full assortment of other kindsofsmall fruit plants. Prices greatly reduced. Wholesale prices on large amounts. Our free catalogs hows the Cooper and ten other kinds in their natural colors. Write for it today. A. R. WESTON & CO., R. D. No. 6, Bridgman, Mich.



\$3.50 Per Thousand, and up. Our heal vel, and Cooper. The world's greatest new Everbearing Strawbetry CHAMPION. Full line of Haspberrier, Blackberries and Asparagus. Greatly Reduced Prices. Our customers are making up to \$120.00 per acre from small fruits. Large stock of good Grape Plants as \$35.00 per thousand.

Beautiful new color catalog free.

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Of inscious Strauterries, also standard Varieties. 100 each Prolific and Gibson, \$2 cash postpaid, 1 Spirea or 2 Concord Company of the Concept of \$5 or more We also save you move on thefity Fruit Press, Shrubs and Ornamentals. Wife of the Concept of \$5, \$6 or more we also save you should be concept of \$5 or more we also save you should be concept of \$5 or more we also save you should be concept of \$5 or more we also save you should be concept of \$5 or more we also save you should be concept of \$5 or more we also save you should be concept of \$5 or more we also save you should be concept of \$5 or more we also save you should be concept.

Strawberries P'ants

farm and Washington's. His farm was, Concord Grape Wines Lyr. No. 1, 340 per 1000. Fruit Blackberries, Currant, Asparagus, Grape Plants, etc. bery. Write for free cutaiogue today. FEATHER'S NURSERIES, Baroda, Michigan Sawyer, Mich. Box 103.

2 or 3 Cans of Baking Powder

Are Not Worth the Price of One

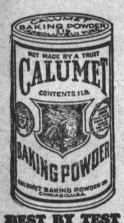
If they are the "big can and cheap" kind because they may mean baking failures.

THAT'S WHY

GALUMET

Is the biggest selling brand in the world; its sales are over 150% greater than that of any other brand

The Economy BAKING POWDER



Don't let a BIG CAN or a very low price mislead you,

Experimenting with an uncertain brand is expensive—because it Wastes time and money



THE WORLD'S CREATEST BAKING POWDER

AStove for a Dime

AMAZING! The many uses of this little stove. Use it for cooking, light ironing, heating curling irons, heating water quickly, warming baby's milk, in emergencies, in the sick room. Hundreds of other uses. Always ready to give you heat in a moment. Be sure to get this



Send ad and 10c to Sterno Corp., 9 E. 37th Street, N. Y. C., Dept. F-2 for sa



Easy to Install Our \$125 buying direct from manufact naces for every home—large and guaranteed, FREE Bargain offer to early buyers. Get this and lists a thousand bargains in F Purniture and farm and home in KALAMAZOO STOVE CO₄ 121_W Rech





CHOICE STRAWBERRY PLANTS \$3.75 per 1000 all Standard varieties at \$3.75. Guaranteed first class or money refunded. Cat'g. Mrs. Filena Woolf. Allegan, Mich.

Color Your Butter

GET OUR

STOVE

and

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

Before churing add one-half teaspoonful to each gallon of 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 tasteless.

Wells & Richardson Co., Burlington, Vt

STRAWBERRY PLANTS \$3 per 1000, history STRAWBERRY and Raspberry Plants 17. Years' STRAWBERRY PLANT and valuable fillustrated book free. You will learn you have been address MAYERS PLANT NURSERY, Merrill Mich.

Household Service

Use this Department to Help Solve Your Household Problems. Address all Letters to Martha Cole, Michigan Farmer, Detroit, Mich.

I am a housekeeper and mother and am just learning about so many things I should have known before I was mar-ried. Can you send me a good recipe for old-fashioned gingerbread?—M. O.

The recipe calls for half cup shortening (lard or lard and butter or bacon fat), two small eggs, one cup of sugar, one cup molasses, two and onehalf cups flour, one teaspoon of soda, half teaspoon cinnamon, one teaspoon ginger, quarter teaspoon clover, quarter teaspoon allspice, one cup raisins.

Cream together shortening, sugar and eggs. Mix together flour, soda and egg mixture. Stir in the flour and add raisins. Bake in a moderate oven thirty to thirty-five minutes.

TABLE SERVICE RULES.

Where should the water glass and bread and butter plates be placed? From which side should the silver be used? In large dinners what is the space to allow for each cover or person?—G. S.

The water glass or goblet should be of fork, with the napkin at the left of a light or fire.

OLD-FASHIONED GINGERBREAD. the fork. Twenty-four inches is the usual space allowed for each person.

TO DYE YELLOW.

Can you send me a simple home recipe for dyeing cotton material yellow?—G. L.

For five pounds of goods dissolve one pound of sugar of lead in enough water to thoroughly wet the goods and in the same quantity of water in another vessel dissolve one-half pound of bi-chromate of potash. Dip the goods well and drain in each alternately until you have the desired shade. Rinse and hang up to dry.

TO CLEAN COAT COLLAR.

Can you tell me something that will clean the collar of a man's overcoat and remove the shine from seams and elbows?—Mrs. F. R.

Rub the parts with a clean flannel dipped in either benzine or aqua ammonia, or a solution made by dissolving a piece of carbonate of ammonia the size of a walnut in a cup of warm placed at end of knife blade on right water. These are inexpensive and will side, while the bread and butter plate not change the color, but do not use is placed on the left side at the end the benzine in a room where there is

FOR the best apple pie that mother there is a reason-employment of the that apple varieties differ in their modern chef would not think of using Stayman, King David or Wolf River for a pie for he has learned that they are not fit for such a purpose. He also knows why Fameuse, Maiden Blush, Minkler and Grimes make the best apple dumplings.

In 1913 and 1914 the Oregon Experiment Station obtained as many apple varieties as possible and decidwere surprising. Highly experienced "apple tasters" were used as judges for all products and the results will interest every family.

tested for pie qualities only such varieties as Northern Spy, Rambo and Maiden Blush were supreme, while Gano, Grimes, Jonathan, Winesap, Giant Jeniton, etc., ranked second.

For jelly the Maiden Blush was far ever, is becoming a lost art. ahead of Gano, Grimes, York, etc.



and Mrs. Hagerman, Carson City.

AN APPLE FOR EVERY PURPOSE, and Maiden Blush were better than Grimes, Gano, York, Winesap, etc.

Usually it is only the fruit grower's used to make and for the most family that has a number of varieties toothsome creation of the modern chef from which to select for the purpose in mind, but fortunately there are a right variety for each particular pur- few general utility apples that score pose. Careful analysis has shown high for sauce, pie, jelly, marmalade and dumpling use, which are Maiden usefulness for various purposes. The Blush, Jonathan, Grimes, Rambo and Northern Spy varieties found in most home orchards.-Missouri Agrl. Col.

NO MORE GUESSWORK IN THE BISCUIT MAKING.

IF, perchance, you are a wife who captured a native of the southern states for a husband, or that husband ed to learn something of their proper. has spent some time in that portion of ties for different uses. The results our country, with the opportunity of enjoying some of the southern mammy's biscuits, you will appreciate fully the latest "new discovery" along this line. Undoubtedly there are others, From fifty-five varieties of apples too, who cannot attain a high degree of perfection in this division of culinary art who will be interested.

The old negro "mammy" of the south is able to taste of buttermilk clabber and then measure out with her For dumplings, Maiden Blush, Mink- fingers the exact amount of soda needler, Grimes and Spy were superior to ed to react with the buttermilk to Ben Davis, York, Rome, Jonathan, etc. make delicious biscuits. Her's, how-

A new and rapid method of determ-For marmalade, Rome, Jonathan, ining the amount of baking soda needed to react properly on a cup of milk of various degrees of sourness has been worked out in the laboratories of George Peabody College for Teachers, by Miss Mary P. Wilson and Dr. H. A. Webb, who presented the results of the investigation at a late meeting of the American Chemical Society, at Pittsburgh. An "indicator" which would show when the correct amount, of soda was added was discovered in the use of a paper soaked with the dye elizarine. Making spots on this paper with drops of milk determines the exact amount of soda required, measured by an eighth of a teaspoon. The manipulation of the test is simple so that bakers, cooking classes, or housewives may use it. Less than a 'Playing Postoffice," Children of Mr. minute is necessary after the solutions are prepared.

Kneading Bread with a Crank

By Our Readers

letters received in this department thing else."-P. R.

mixer, I believe the immediate result of a commercial bread mixer. Increasearliest possible time. Some forty re- amount of time and energy saved."plies have been received at this writ- L. E. B. ing and more are coming with each mail. The fine thing about it is that the first one lasted about twelve years. they are all on the affirmative side of I thought at first I would do without the case. That is, that Mr. A. L. get one, but soon changed my mind and busy right away and get Mrs. A. L. a got another bread mixer."-A. H. ing are some of the statements of rec- the directions call for."-F. E. S. ommendation made by housewives "My daughter won first prize on the who have had experience with com- bread made by using a mixer."-F. W mercial mixers of various sorts:

'We have used one in the family for

F Mrs. A. L. could read all the nice have to learn to use it, as with every-

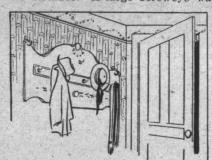
regarding the commercial bread "There are many things to be said would be that Mr. A. L. would crank ed sanitary possibilities, superior qualthe car and they would start immedi- ity of bread and an unbelievable am ately for town to procure one at the ity of bread, and an unbelievable

"I have used one for fifteen years,

bread mixer to lighten the task of "The mixer is perfectly all right, making the family bread. The follow- but I usually mix bread longer than

HANG YOUR HAT AND COAT HERE.

THE ornamented top of a headboard to a black walnut bedstead was made into a rack to hold hats and coats in this way. Strong hooks were screwed to the piece of wood at a suitable distance. A large screweye was



inserted at the top of each end. Then hang the rack to strong screws in the wall. Being fastened to the wall in this way the rack can be easily removed when papering is to be done. This unique rack is fitted into the space behind the outside door that opens into the room.

Home Improvements

MAT one change or improvement would be the greatest benefit to your home, or which one would you rather have installed?

This question is to be answered in your letter for the next contest. Two weeks' time will be allowed to give ample time for the letters to get here from all parts of the state. The letters should arrive not later than

For the best letter answering this question we will give an aluminum double boiler. The second prize will be an aluminum serving tray, while the third, fourth and fifth prizes will be aluminum sauce pans.

Address your letters to Martha Cole, Michigan Farmer, Detroit, Michigan.

seven or eight years and could not do without one now. It not only is much less work than the old-fashioned way of hand-mixing, but it is easier and cleaner."-A. G.

without it. My mother has also used good for sandwiches. one and we both find them very satisfiner texture."-C. E. H.

"Have used a bread mixer for eightone. Have mixed a lot of bread with are good. my mixer, for I have raised a family of four boys and three girls, but it is still in good condition."-M. C. R.

wonderful labor-saver. Of course, it of a funnel of paper and clip off the must be used according to directions."

"My health was very poor and I was unable to make my bread alone until takes too much time, but I feel that I I purchased a mixer. I have used mine am well repaid. for eight years and would hate to do without it. One has to become accustomed to using it as with any piece of machinery."-A. C.

"Twenty years ago I purchased a Two squares of bitter chocolate; mixer, the occasion being that the two cups of sugar; one-eighth teahands going into my bread, and I knew cup nut meats. a mixer would make it clean and san itary."-Z. F. W.

with very little work. It is practical ring until mixture forms a soft ball

mixer has a finer grain than that made tially cold, add vanilla and raisins and by land. Don't be discouraged if your beat until creamy. Pour in buttered bread isn't good the first time, as you pans and cut in squares.

THE SCHOOL LUNCH BASKET.

Second Prize.

Mrs. G. B., Nashville, Michigan.

I usually plan on having sandwiches, "Have used a mixed for several sauce or fruit, and cake or cookies. I years and would certainly hate to do sowed some upland cress that is very

The fancy frosted cookies always factory. I knead my bread longer than make the lunch more appetizing. By the directions say, as it makes it of a using common cake recipe I make little cup cakes and add cocoa, cocoanut, or sugar frosting to them. If sending een years and wouldn't do without pie, I think the little individual pies

On St. Valentine day, I try to have a Valentine lunch. I make the sandwiches heart shape. The cookies I "Would say from experience that a red and white candies. If one does not cut in heart shape, too, and cover with mixer is a most satisfactory device—a have a pastry tube one can make one small end and squeeze icing through to make dainty designs.

Perhaps some mothers think this

MAKE FUDGE FOR THE WINTER EVENINGS.

young housemaid whom I had at that spoon of salt; three-fourths cup milk; time desired me to teach her bread one tablespoon of butter; half teamaking. I did not fancy another's spoon vanilla; half cup raisins; half

Melt chocolate and add sugar, salt "I make fine bread with my mixer sugar is dissolved. Cook without stirand milk. Stir until mixture boils and and a small child can use it."-F. P. A. when tested in cold water. Remove "We think the bread made with a from fire and add butter. When par-

What is good health worth to you?

EALTH is priceless. You wouldn't knowingly part with it for anything in the world.

Why then do you risk it needlessly for the sake of a few cups of coffee? Coffee contains caffeine, a harmful drug which often interferes with nerves and digestion.

There's an easy, pleasant way to avoid this menace to health, without any sacrifice of comfort or satisfaction. Drink Postum instead of coffee.

Postum is a pure, cereal beveragewholesome and delicious-a safeguard

> 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 to make the drink while the meal is being prepared; made by boiling fully 20 minutes.

"There's a Reason" for Postum

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Postum Cereal Co., Inc.
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EARLY-BIG YIELD STRAWBERR ror GIBSON, me Bardest, the EATOA, in exquisite. Reasonable price, quality guy anteed. Write for free catalog today. Lists best varieties Strawberries, Rar-berries, Blackberries, Orapes, Etc.
LAKE SHORE NURSERIES,
R. R. 1, Bridgman, Michigan

STRAWBERRIES \$3 50 Per 1000. Standard varieties. Strong clean, well rooted Full line of Raspberries. Dewberries. Grapes. etc send for catalogue. HELLENGA'S NURSERY, Three Oaks. Mich

MICHIGAN FARMER Classified Liners bring results. They cost little. Try one.

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also make Radio and Automobile Batteries and Repair Parts For Any Make Battery,

Battery Guide Sent FREE No matter what kind of Plant you have, this interesting book will show you just how to renew the system with Universal Batteries. The right size for every Farm Power and Light System made. It also lists Parts for all makes of batteries. "Care of Batteries" is another valuable treatise; will also be sent free with the new Universal Battery Guide. When you write, mention brand-name and age of your present batteries so that we can give you the correct allowance figure. Write today. (133)

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Any Kind of Skin make up any kind of skin to your needs.

Also Ladies' Coats and Furz, Robes, etc. We have been in the tanning business since 1878 and guaran-tee satisfaction.

FREE Book of styles of Men's and Women's furs.

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116 East St. Reading, Mich.



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of CATTLE, HORSE, CALLE, HORSE, CALF, COON, FOX, SKUNK, MINK, MUSK-RAT, WOODCHUCK, DOG, CAT and RAB-BIT SKINS.

What kind of skins have you? We make up and line Men's & Ladiee' Fur Coats, Scarfs, Muffs, Capes. Collars, Robes and Mittens from raw skins. Circulars Free. Use plenty of salt on green hides.

W. W. Weaver, Reading, Mich. Custom Tanner. 30 yrs. Experience.



War Time Prices Hides and Furs

and making them into FINE FUR COATS, FUR SETS, ROBES, ETC. Our Prices for doing this WORK are on a level with what the Farmers received for this year's cross. year's crops.
Our CATALOG is Free, it tells how you can be the Wearer of a Fine Fur Coat, etc., at the lowest prices quoted in years for Custom Fur Work. Address

W. G. White The Blissfield Tannery, Blissfield, Mich.



nd make to your order from your cattle, horse and all kinds of hides and furs, men's fur coats, robes, caps, gloves, and mittens, ladies' fur coats and fur sets. Remodeling and repairing in latest styles. Ship us your work and save one-half. New Galloway coats, robes, gloves and mittens for sale. We are the oldest oway tanners; 34 years continuous busines, style catalog, prices and samples. Don't your hides and furs elsewhere until you pur proposition.

HILLSDALE ROBE & TANNING CO.,

DOGS

Fox Hounds, Rabbit and Skunk dogs. All If the girls' fort is not built strong, it I w.E. LECKY, Holmsville, Ohio will sometimes fall in. Sometimes the

Your Light Plant | Our Boys' and Girls' Department

My Favorite Winter Sport

As Told by Contest Winners

though I am not a perfect skater, yet, not always the strongest built. I enjoy it very much. I go skating on the pond every night if the weather is nice. I study all my lessons before June, and one cannot neglect their lessons and pass, too. Can they?

I also go to the Amphidrome, which is a large building for skating. It costs twenty cents to get in and I- go on Wednesday and Saturday nights. One night I was down there skating with one of my boy friends, when my skate got tangled in some man's skate, and as he turned around to try and sep- Dear Uncle Frank: arate the two skates, his skate hit me

Uncle Frank's Picture



To keep my promise, here is my favorite picture. I like it because it shows me smiling, which was a rare thing for me to do at three years of age. Of course, it was taken some time ago.

in the shin bone. I fell right over and is was unconscious for quite a while gebra When I woke up I was stunned to see a doctor bending over me. My leg was all bandaged up and crowds of people were standing around me, and they all smiled as I opened my eyes. Most of them were strangers to me, but they talked very nice to me. was in bed for three weeks, and peo-

a fort at school and have the girls theirs, stand the boys. But there are more

girls than boys and some of the girls can throw a snowball pretty hard.

I like to take about twenty snowballs and three boys, and go and get the girls angry. Then the whole bunch of girls will chase you back to your fort, never thinking to guard their own fort. The other boys will go and take the girls' fort while we are being chased. You can't play this trick on the girls more than once a week, because they get on to the trick.

Then you have to get four or five strong boys and a lot of snowballs and throw them as hard as you can.

All ohlo will sometimes fall in. Sometimes the girls' fort is not built strong, it only will sometimes fall in. Sometimes the local property of the first of the first of the first of the first of your time. When you have the hiccoughs just see how close you can get the ends of your little fingers together and not touch them." That will cure the dog's sake. And besides, cooking should be most every girl's accomplishment.

We are two boys (twins) fourteen the fount thing were to give a few of the finembers of the Merry Circle some davice. "When you have the hiccoughs just see how close you can get the ends of your little fingers together and not touch them." That will cure the disease when water is not handy.

I play a cornet at school in the orchestra. Well, I think I have had about my share of your time. Write.

You ought to learn to cook for the dog's sake. And besides, cooking should be most every girl's accomplishment.

We are two boys (twins) fourteen the touch the members of the Merry Circle some davice. "When you have the hiccoughs just see how close you can get the ends of your little fingers together and not touch them." That will cure the disease when water is not handy.

I play a cornet at school in the orchestra. Well, I think I have had about my share of your time. Write.

You ought to learn to cooking should be most every girl's accomplishment.

We are two boys (twins) fourteen the touch them is should be most every girl's accomplishment.

We are two boys (twins) fourt

My favorite sport is skating. I have you will have to look at things in a four balls, the batter takes his base, been skating two years now, and al-different manner. The boys' fort is When catching you are liable to give

By Reuben Esch.

I go out, because I am in the eighth ball on ice on dull skates. When bat- or on base, or in the field, there are grade and would like to graduate in ting you will have to watch yourself many exciting experiences.

or your foot will slip, then you will miss the ball.

This game is played like baseball. But you play it on the ice with skates on. When pitching you might let your By Lucile Lawler, Houghton, Michigan. girls will do this to your fort. Then foot slip and make a ball. If you make

> a quick jump to catch the ball, and possibly fall, bumping your head, raising a welt as large as an English wal-My favorite winter game is playing nut. When running from base to base

Our Letter Box

THIS letter box will be where the boys and girls can express their views, tell of themselves and things about the farm, or ask advice. The most interesting letters each week will appear here. Address your letters to me.—Uncle Frank.

Dear Uncle Frank:

I wrote to you once before, but my letter reached the waste basket. I also tried one of your contests, but failed. So here goes again.

My father takes the Michigan Farmer and likes it real well. But he is not the only one. I can hardly wait until the paper comes. As soon as I get home from school on Thursday, I get home from school on Thursday, I git down and read the paper. Hy Syget home from school on Thursday, I
sit down and read the paper. Hy Syckle, Al Acres and the wonderful page
of the Boys' and Girls Department are
the most important parts of the Michigan Farmer, I think.
Well, this letter is getting long, so
will close.—Another niece, Violet M.
Olin, Stanwood, Mich., R. 1.
Thanks for your good words for the

Thanks for your good words for the Michigan Farmer and this department. The department wouldn't be what it is lose them after the chase? if it wasn't for you boys and girls.

Dear Uncle Frank:

I have been a reader of the Boys' and Girls' section for some time, but I have never before attempted to write

I like outdoor sports very much. I like outdoor sports very much. In summer I ride horseback and play ball with my brothers, I learned to skate on the ice last winter, but I haven't had a pair of skates on this winter. I think I've been too busy. I love to read novels. What girl doesn't? Of course, the boys make fun, but I think they are just as silly as girls at times. Don't you? I shouldn't have asked you that question, and you need not answer.

Don't you? I shouldn't have asked you that question, and you need not answer it. I forgot that you were once a boy. Well, I must close for this time. It is very near my bedtime and six algebra problems are just dying to be worked.—A niece, Evelyn Hutchins, Quincy, Mich.

I hope those algebra problems were saved before they died. As for boys being silly-did you ever see one act silly? If you did then I guess they get that way, too.

was in bed for three weeks, and people that I didn't even know came to see me.

I have all kinds of friends, and all through that little event. I like skating because it makes one healthy.

Dear Uncle Frank:

I received the membership card and the Merry Circle button, and I am very much pleased with it. Thank you for it. I wear it on my coat every day.—Sincerely yours, Janice Bailey, Grayling, Mich.

I found no bunny hairs. I am going twin boys are entirely different.

to try that hiccough stunt next time.

creek that runs through our farm, watching the ducks eat minnows. When we came up the bull chased us. He had horns, and I tell you he lost them mighty quick.—Sincerely Rolla

It's a good thing that bull lost his horns when chasing you, or you might have been damaged some. Or did he

Dear Uncle Frank:

I haven't written before as I didn't know whether you would accept my answers to your puzzles or not, as I don't live in Michigan.

I have answered this puzzle, or rather questions to your ad-reading contest. If you can't accept them it will be all right with me. I will enjoy the magazine just the same.—From your niece, Mildred Jones, Alexandria, Mich.

I like the spirit of the last paragraph of your letter. However, state lines make no difference in our department. Come again often.

Dear Uncle Frank:

I didn't see any letters from around
Wellston so I thought I would write
one. Please let me become one of
your nieces.

What are you girls and boys doing these fine winter days? I'm not doing much, only crocheting and reading. I went skating last Sunday and reading. It went skating last Sunday and sure had a lot of fun. But I will have enough to do in the summer. Especially one thing, and that's eating watermelons. If any of you boys and girls want some, just come along.

Now you don't need to think I can't

the membership card and the Merry Circle button, and I am very much pleased with it. Thank you for it. I wear it on my coat every day. Sincerely yours, Janice Bailey, Graying, Mich.

By Archie Roberts, Fennville, Mich.

I am glad you like the button and is King; he is a good cattle dog.

I received the membership card and the Merry Circle button, and I am very work out of doors, for I can. But I am not a first rate cook. For sometimes the dog even has to go hungry for a while. I feel sorry for him, but I can't do any better. The dog's name is King; he is a good cattle dog.

I guess I will "beat it" or Uncle Frank will chase me out with a broom.

Your niece, Emma Sapatka Wells-

-Your niece, Emma Sapatka, Wells-

You ought to learn to cook for the

ST(0)PS by controlling Late Blight



Treating the seed will not prevent a foliage disease. You must spray thoroughly. Spray with Pyrox for 3 REASONS: It controls the blights which cause potato rots; kills potato bugs, repels flea beetles and leaf-hoppers; invigorates the plants so they grow until harvest.

Pyrox is a smooth form poster.

Pyrox is a smooth, firm paste—a chemical blend of poison and fungicide; more poison than U. S. standard requirements. Fine for all truck, HOME GAR-DENS, small fruits, flowers, shrubbery. If your dealer does not have Pyrox, write to us.

Write to-day for PYROX BOOK -the latest authoritative data on spraying. Read them.

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POULTRY

BABY CHICKS



THE DUNDEE HATCHERY,
Dundee, Mich.

THE MERRY CIRCLE.

THOSE valentines certainly have come in fine. There are many dandy ones and I appreciate them very much. But we shall have to wait until next week to announce the winners.

The Merry Circle buttons are being distributed about, and I believe many of you have seen one on someone's coat or dress. We send out quite a few every day. Many have written that they have received theirs, but, of course, others have not acknowledged receiving them.

Once before, I think I mentioned that we had to send these buttons out under a one cent cancelled stamp because the big cancelling machines would tear the envelopes to pieces when they have the buttons in them.

One or two have complained that they did not receive the buttons when they were entitled to them. We want no one to be disappointed. So if you have had your Read-and-Win answers right during the last few weeks and have not received your button, please let me know.

I am anxious to hear from all who think they have earned a button and have not received it, as that is the only way I can tell whether the buttons are going through the mail properly or not.

Washington Contest

A LL of us know, or should know, quite a little about George Washington, the Father of our County. As we all have studied his life as part of our school work, I believe a contest on "Lessons I have learned from Washington's life that have helped me most," will bring out some interesting and helpful things. Please write about two hundred words or less, on this subject. The ten best papers will earn pencil boxes, nickeled pocket pencils, or Michigan Farmer maps of the world. All good papers will bring their writers a Merry Circle button and membership card.

Please send your papers to Uncle Frank, Michigan Farmer, Detroit, Michigan, on or before February 22.

BOYS' AND GIRLS' CLUB WORK PROGRAM FOR 1923.

BOYS' and girls' club work will be extended to include seventy counties of Michigan during the year of 1923, if plans described by R. A. Turner, state club leader, at the annual conference at M. A. C. in connection with Farmers' Week are carried out.

During 1922 club work was carried on in sixty-three counties, according to Mr. Turner. Boys and girls listed on the rolls of the various clubs numbered 18,056. Of these, 11,537 completed projects. This year it is anticipated that 18,500 boys and girls will be listed as club members. Fourteen counties will have full time club agents.

Mr. Turner exhibited maps showing the counties covered by club work and charts giving the total number of lubs of each kind. Following is the Bowling Green Hatchery & Breeding Co. Bowling Green, Ohio list of the special product clubs, with the number of counties in which they are organized and the total number in the state: Crop clubs, twenty-four counties, fifty-six clubs; poultry, thirty-nine counties, sixty-seven clubs; garden, fifteen counties, 193 clubs; handicraft, thirty-five counties, 175 clubs; garment, forty-two counties, 332 clubs; canning, thirty counties, 133 clubs; cooking, seven counties, twelve clubs; hot lunch, thirty-four counties, 170 clubs.



Shoot that horse?

"WHY, I wouldn't do that. She may be run down but she has a lot of work left in her yet. If you'll get a bottle of Gombault's Caustic Balsam and use it just like the direction book says, she'll be working again in a month.

"We've used Gombault's on our horses ever since it was first imported forty years ago. There aren't many horse troubles that it won't help. Say, I don't believe I could run the farm without it. No more firing—Gombault's does the same work and doesn't leave a scar or blemish or discolored hair."

GOMBAULT'S CAUSTIC BALSAM "WHY, I wouldn't do that.

GOMBAULT'S CAUSTIC BALSAM is a reliable and effective remedy for Spavin Thrush Sweeney
Capped Hock Quittor Barb Wire
Curb Windpuffs Cuts
Splint Poll Evil Calk
Ringbone Fistula Wounds
Strained Tendons

A million successful treatments given each year. Full directions with every bottle.

\$1.50 per bottle at druggists or direct upon receipt of price. GOOD FOR HUMANS TOO
An excellent remedy for sprains, bruises, cuts, burns, sore throat, muscular and inflammatory rheumatism, sciatica and lumbago. The Lawrence-Williams Company, Cleveland, Ohio. Sole Distributors for the United States and Canada.

GOMBAULTS Caustic BALSAM

POULTRY

Orders may now be placed for March, April, May, or June delivery. Our Poultry Circular describes 11 breeds; all guaranteed and sent postpaid. Note particularly our Superior White Leghoms and Superior Barred Rocks; Hens that are making egg records in the hands of our customers. Send for price list.

STATE FARMS ASSOCIATION 201 Chase Block, Kalamazoo, Michigan

From purebred egg type birds. Barred Plymouth Rocks, White Wyandottes, Rhode Island Reds, White Leghorns. Prompt delivery and safe ar-rival guaranteed.

The Milan Hatchery,
Milan, Mich.

Day-old baby chicks-seven varieties, all from pure-bred flocks. Better-bred, betterhatched stock. We guarantee satisfaction. Write for free catalog. Airdales.

Lee's Poultry Farm and Hatchery Edison, Ohio

BABY CHICKS of SUPERIOR QUALITY



From 12 select heavy laying varieties of Standard bred poultry, free range and Hogan tested, \$12 per 110 up. Full value for your money. Shipped by prepaid parcel post and 100% live delivery guaranteed. Send for free catalogue and prices.

Guaranteed Chicks

Exhibition and utility strains from America's best. Barred and W. Rocks, R. I. Reds, W. and Brown Leghorns, W. Wyandottes, Anconas. Surprising prices, quality considered. 13 years hatcher leghors. Catalog. Haight Hatchery. Cedar Springs, Mich.

Day Old Chicks

Hillcrest Poultry Farms & Hatchery, Holland, Mich.

WOLVERINE BABY CHICKS

Are chicks that satisfy.

Bred for egg production 13 years. We hatched and shipped chicks for 12 years. This assures you success. English type white and brown Leghorns. 100 * safe arrival guaranteed. Write for catalogue. Its free.

WOLVERINE HATCHERY ZEELAND, MICH. R 2

Baby Chicks for 1923

From our high producing English American S. C. White Leghoms. From 310 pullets we averaged 178% eggs per bird for the year. Be sure and get some of our chicks for 1923 from our high record hens. Send for price list. LABOS POULTRY FARM, Hart, Mich.

White English Leghorns, Tom Barron strain; White and Barred Plymouth Rocks; S. C. R. I. Reds; Buff Orpingtons. All pure bred from selected stock. Live arrival guaranteed, postage paid, We do custom batching. Durand Hatchery, Fenton, Mich.

BRED-TO-LAY CHICKS
S. C. WHITE LEGHORNS, English and American strains. Strong vigorous fellows that will develop into fine winter layers. 10% discount on all orders received before Feb. 15th. Write today for circular. CUMINGS WHITE LEGHORN FARM, Box R. Otter Lake, Mich.

64 BREEDS Most Profitable chickens, Choice, pure-bred northern raised. Fowls, eggs, incubators at reduced prices. America's great pouttry farm. 30th year. Valuable new 100-page book and catalog free. Baby Chicks \$12.00 per

Hatching eggs. \$1.50 per setting to \$15.00 per 100. We are listing 17 varieties of pure bred fowls; Chickens, Geese, Ducks & Guineas, also breeding stock. Send for prices and circular. Booking now for early delivery. CLINTON HATCHERY & POULTRY FARMS, Wilmington, Ohio.

PRETED WHITE LEGHORNS PRETED TO 2005 PRETED WHITE LEGHORNS PRETED TO 2005 PRETED



Hardy Northern Bred CHICKS

Barron S. C. White Leghorns. Parks' Strain Barred Rocks. The greatest egg producers known. Heavy winter layers. See record of our pen 16 now at the Michigan International Egg Laying Contest. Get Quality Chicks at Reasonable Prices from HOLLANDS' PIONEER POULTRY FARM. Catalog free. PINE BAY POULTRY FARM Mich. R 4 Holland. Mich.

CHICKS

Barron English White Leghorns. Brown Leghorns and Barred Rocks from Heavy Laying Strains. 100% live arival guaranteed. Prices Reasonable. Satisfied Customers our Specialty. Write today for valuable catalog.

HIGHLAND FARM HATCHERY, Holland, Mich.

We hatch leading varieties of Standard Bred vigorous, heavy laying stock. Postage paid. Live arrival guaranteed. Send for our prices, open dates and large illustrated catalogue free. Write today. Superior Poultry Co. Box MF, Windsor. Mo

Evergreen Pou try Farms White Wyandottes A.C. Laying Contest. Let us show you what we have Write for circular. Blanding & Sons, Greenville, Mich., Dept. B,

CHICKS from good selected heavy Leghorns. We keep just the one breed write for circular. Willard Webster, Bath, Mich.

RHODE ISLAND WHITES win over all breeds at the egg laying contest. 30 eggs \$5; 50 \$8; 100 \$15 order from this ad. Some chicks H. H. JUMP, R. 5, Jackson, Mich

White Le horn BABY CHICKS of superior qual exclusively. Safe arrival curranteed. Circular free, THE MARION HATCHERY. R. 4. Marion, but

Single Comb Black Minorcas. Few choice cockerels. grandsons of our 12. R. W. MILLS. Saline, Mich.

R. C. Br. Leghorn c'k'rls, \$1.50 to \$3.00 each. W. Chinese geese \$5.00 each. Eggs for hatching now ready. Mrs. Claudia Betts, Hillsdale, Mich.

White Wyandotte Coakerels. Finest Bred-to-lay Stock. HOWARD GRANT, Marshall, Mich.

Barred Plymouth Rock Cockerels \$5.00 each. Prize winning laying strain.
J. A. BARNUM, Union City, Mich.

BABY CHICKS

100 delivery guaranteed. Free catalogue. BABY CHICK CO. Dept. M. Bryan, Ohio. 100.000 chix 12c up. 20 pure bred certified egg-tested exhibition varieties. Hatching eggs. Catalogue. Beckman Hatchery, 25 E. Lyon, Grand Rapids, Mich.

White Holland Turkeys Tolouse geess A.I. Stock, A.I. DEN WHITCOMB. Byron Center, Mich. Additional Poultry Ads. on Page 243

GUARANTEED RURAL

EXCEPTIONAL VALUES IN HIGHE
THE BRED S. C. English White Laghorn RURAL POULTRY FARM,



BiggestHatches Strongest Chicks

That's what you'll get with my Hatching Outfit, and I can'prove it. My new Poultry Book, "Hatching Facts," tells the whole story—gives newest ideas and easiest ways to make poultry pay—it's Free—write for it today. Learn the many advantages my Belle City has over the "old hen way," and the big money folks make using my

\$1095 140-Egg Champion **Belle City Incubator**

Double Walls Fibre Board—Hot-Water Copper Tank—Self-Regulated Safety Lamp, Thermometer & Holder—Egg Tester—Dep Nursery. \$6.95 buys 140-Chick Hot-Water Double-Walled Belle City Brooder. Or save \$1.95 by ordering Both together for only

Express Prepaid



BOWERS Colony Brooder

More Chicks---Less Cost This brooder is a chick-saver and a money maker. It raises more and better chicks, at less cost than other brooders. Stove is best in the world to hold fire—air-tight and self-regulating. It burns soft coal—the cheapest fuel—perfectly. Cuts fuel costs in half. Stove will also burn hard coal, wood, coke, etc. Regulator maintains even heat night and day. No trouble. Sizes for 500 or 1000 chicks. Law priced. Write TOBAY.

F. M. Bowers & Sons Co.

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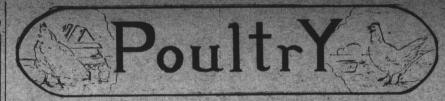
CHICKENS SICK? Hens not ? GERMOZONE

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Quality Hatcher At The Lowest Price "Successful" A BROODERS







Factors In Egg Production

AT the Round-up, C. M. Ferguson, semi-solid buttermilk it pays to dilute of the college extension depart- it at first. For green feed sprouted failures with poultry are due to a lack vegetables. Potatoes are the best when of knowledge of details. Warm poul- fed boiled. Alfalfa hay is a very good due to dampness and poor ventilation, for succulence. Silage contains too lighted.

try house and the sunshine destroys dry mash without danger. many of them in a few minutes. A hen is a machine for taking feed and manufacturing eggs. Grains, greens, grubs, grit and gumption are five estions in the laying-house if you wish IN Prof. E. C. Foreman's talk on winter eggs.

Here is the relation between the



Intruders Not Welcome.

number of whites and yolks contained

III THE MITTEL CITE Press	**************************************	
	Yolks.	Whites
Corn	. 255	134
Wheat		182
Oats		155
Barley	000	145
Buckwheat		128
Skim-milk		52
Meat scrap		1,107

All the figures are on the basis of meat cuttings. The horn, hoof and as good as meat scrap.

ing contest consists of equal parts of py, industrious singing hen with a cracked corn and wheat. Cracked corn good laying cycle has the laying temis more easily digested than whole perament. The breeder must look for corn. Here is the mash ration used in keenness and intelligence in culling the laving contest.

	Lbs.	Yolks.	Whites
Ground oats	20	39	31
Bran	20	31	41
Middlings	20	41	44
Ground corn	20	40	27
Meat scrap	20	21	221

winter to supply increased heat and months to mature.

one-half pounds per 100 hens. At night ternal fat. per cent more bran. When feeding rest periods. A hen with five new and

ment, discussed the environmental fac- oats come first in quality. Mangels tors which influence egg production, are the next best source of succulence He says that ninety per cent of the followed by cabbages and then other try houses are not good for the birds, roughage but not an entire substitute The house must be dry and well much fiber to be a good substitute for succulent vegetables. One per cent of Germs do not develop in a dry poul- fine table salt can be mixed with the

SELECTION FOR EGG PRODUC-TION.

tion, he said that the majority of breeders who made entries in the laying contest sent birds that were too far advanced, meaning birds that had been laying for several weeks before the opening of the contest. They are then often thrown into a moult from moving. A breeder should not be disappointed by the showing during the first six or seven weeks as the breeding will show up if it is there.

In discussing individual layers it was found that a forty-four-egg hen produced them all in the spring. The eighty-five-egg hen laid only in the spring and summer. A production of 150 eggs is considered satisfactory. Hens that lay five or six eggs a week are apt to make good records, and intensity of production is important. Intensity, endurance and non-broodiness are emphasized as factors which make hens heavy layers.

Cold weather is not a handicap to 100 pounds of each material. Too much production and it has been found eascorn causes the birds to store up fat. ier to get high production in the win-Oats are the nearest to a balanced ra- ter than during July and August. A tion. The hen does not use the pro- hen that laid 120 eggs went broody tein content from cottonseed meal effi- nine times, and a hen loses about fifciently. Meat scraps are made from teen days every time she goes broody.

The spread of the pelvic bones of a digestive tract are used in tankage, hen indicates immediate production The average grade of tankage is not but not the other characteristics of layers. It takes a bird that is a heavy The scratch grain ration in the lay- eater to produce many eggs. The hapthe flock.

The crow-headed hen may be crowheaded while growing, but later make a change in type. Crow-headed birds are caused by too close inbreeding and faulty brooding. Crow-headed birds The corn in the ration is increased are apt to produce slow feathering from twenty to thirty pounds in the chicks which often take nine to twelve

energy. This is of special value for The refined type of head means inbirds under lights. Bran has a good tensity of production. The Jersey head influence on the digestive tract. The on the Holstein body illustrates the use of mash keeps the flock in produc- type of layer that is apt to be a good tion even after the spring rush is over producer. Cull out the hens with the and it is advised even for farm flocks beefy or masculine heads. Cull out on free range where they are suppos- the growing hens. Not over one hen ed to pick up more of their living than in a thousand is that way. Hens with they really find. The hens have a lim- a heavy skull are apt to be of a broody strains. ited range and this means only a few nature. All late moulting hens are bugs per hen on hot summer days. not heavy producers but it is a good About ten pounds of grain per 100 general rule. Bald-headed hens are hens per day is advised for the light often high producers. Close feathered breeds. The heavy breeds require birds that are flat ribbed are best. about twelve pounds per 100 hens per Some of the best strains of Leghorns day. Feed the flock lightly in the morn have broad flat backs. The round-ribing, giving about three to three and bed conformation is a symptom of in-

give all they will clean up. When Hens generally moult starting at the grinding wheat as a substitute for tenth wing feather. The more new bran and middlings it pays to add ten feathers in the wing the greater the

Equal to Incubator Costing **Twice the Price**



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HIGHEST QUALITY CHICKS

Michigan's Old Reliable Hatchery

Pure Bred English and American S. C. Anconas: Barred Plymouth Rocks and R. I. Reda. Strong, well hatched chicks from tested Hoganized free make wonderful winter layers



W. VAN APPLEDORN, R. 7, Holland, Mich.

Egg-Bred Chicks

ENGLISH type White Leghorns, Brown Leghorns. From wonderful layers. 11 years of breeding for egg production. Breeders headed by large vigorous males from high record hens. Large combed deep bodied type. You will be proud to own a flock of these Leghorns. Live delivery guaranteed. Illustrated catalog free. Write today. Royal Hatchery & Farms, R.2, Zeeland, Mich.

B-A-B-Y C-H-I-X

Order Now For 1923
WHITE LEGHORNS AND MOTTLED ANGONAS
Also Black Leghorns, Brown Leghorns, Buff Leghorns, Black Minoreas, B. C. Rheders and Reds,
Barred Plymouth Rocks, White Plymouth Rocks, Willer Wyandottes, WE HATCH eggs from Hoganized flocks on free range on separate farms. Send for Price List.

Send for Price List.
CRESCENT EGG COMPANY
Michigan

JUST-RITE Baby Chieks

A Hatch Every Week All Year NABOB HATCHERY, POSTAGE PAID, 955 live arrival guaranteed. MONTH'S FEED FREE with each order 40 Breeds chicks, 4 breeds ducklings, select and exhibition grades. Catalog free, stamps appre-ciated. Dept. 15, Gambier, O

Pioneer BABY CHICKS

Pure breed, Tom Barron, English White Leghorns and Bæred Rocks.
Chicks that satisfy, 100% live delivery guaranteed with right prices.
Send for our illustrated catalogue and price list before ordering. We save you money.

PIONEER POULTRY FARM & HATCHERY,
Box A, R. 10,

Holland, Mich.

BABY CHICKS

Chicks with Vigor and Pep from heavy laying

PRICES FOR FEBRUARY
Per 100
is . \$15 00 .
cocks . 15 00 .
eghorns . 12.00 .
. 13.00 . A. D. RICHARDSON HATCHERY, Dundee, Michigan

BABY
CHICKS

8 leading varieties; free range, pure bred stock, 100%
live delivery guaranteed.
Postage prepaid. Catalog and price list free.
Scott Bross. Hatchery, Edison, Ohio.

Barred Rocks egg contest winners eggs from a rain per setting prepaid by P. P. Circular free. FRED ASTLING. Constantine, Mich

five old feathers has probably done considerable resting.

In selecting male birds, study the head. Excessive length means a long time for maturity. Use the male bird with a shorter head if you wish early maturity. The bird should have a broad, flat back, flatness of rib and early maturity. The early crowing is a sign of early maturity but the size at maturity should also be emphasized.-K.

FOR ROUP.

I SEE in the Michigan Farmer that there are some who ask what to do for roup in hens. Here is a very simple remedy. Take a pail of warm water and put about three ounces of kerosene in the water. Then take each chicken by the feet and wings, dip them and then wipe them dry and keep in a warm place. They will come out all right. I have tried it this fall and so did my neighbors without the loss of one hen. They should be dipped again in a day or two. Also give them some good tonic.-Mrs. H. Mc-Coy, Montcalm County.

WASHINGTON, THE FARMER.

roughly, fifty miles in circumference. His laborers were housed in a large village with stores which had on their shelves anything from a quinine pill to a baking kettle. He kept a magnificent coach drawn by four carriage horses, just for the convenience of his wife. He often rode forty to fifty miles a day on horseback, overseeing the farm work, without leaving his own farm. He entertained a hundred guests at a time for a week or a month, and thought nothing of it. He devoted at least half of his time to public business which paid little if any salary. With all this expense, he made the old farm pay so that he was two hundred thousand dollars richer when he died than he was when he took over the farm. He practiced rotation of crops, cover crops, built his own fences from his own rails, invented and made his own farm tools and left his farm soil richer than it was when he took the place.

Washington heartily disliked hero worship and public acclaim. He was a very poor speech maker. His greatest happiness was found on the farm. Washington was a real dirt farmer.

FEEDING DUCKLINGS.

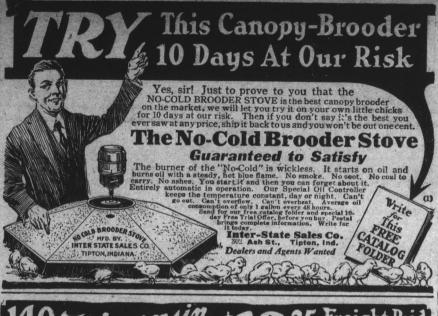
Can you tell me how many ducks I can keep with one drake? Can you tell me how to handle little ducks, and what I should feed them? I hatched quite a few last year but only raised four.—E. B.

Five ducks to a drake is a suitable ratio early in the season. Later a good per cent of fertility may result from using seven or eight ducks to a drake. A good first feed for ducklings is equal parts of corn meal, bran and stale bread. To this cereal mixture add about ten per cent of beef scrap and about twenty per cent of green food, such as fine grass clippings. Ducklings are often injured by using too concentrated a ration.

BLUE OINTMENT FOR SETTERS.

Would blue ointment put on my setting hens spoil the eggs for hate -A. S.

I always treat each setting hen with blue ointment a day before the eggs are placed under her, if the flock has ment should be used sparingly and rubbed in thoroughly. I have never found that a small dab of the ointment under the vent and under each wing ever caused any injury to the hatching eggs. Of course, grease injures eggs, but there is not enough used in louse treatments to smear the eggs.





You take no risk in buying Wisconsins. You have 30 days to try the back if not pleased. Select the size you want—order today. 30 Days Trial Why Pay More Wisconsin WICKLESS Colony Brooders



WISCONSIN INCUBATOR CO.





The Best Laying Strains on Earth

Barron English White Leghorns, Brown Leghorns, and Anconas. During 1923 we will sell 30,000 strong, healthy, superhatched chicks weekly, bred from strains backed by 18 years of actual egg breeding on our Farms. The enormous output of these quality chicks enables us to sell these money-makers to large, vigorous 260-288 egg Pedigreed Males from Funk Farm direct.

Hundreds of Customers Report Big Profits

E. I. Beebe, St. Charles, Mich. writes: My 100 hens laid 193 eggs each and I made over \$300.00 clear profit last year.

Wm. Vivant, Harbor Spring, Mich. writes; We got 3528 eggs in January from 180 pullets.

A. Dall, Port Huron, Mich. The pullets began to lay at 4½ months old and averaged 23½ eggs each for one month. F. L. Hess, Chicago, Ill. writes: I averaged 112 eggs a day from 140 hens and sold \$158 00 of eggs in February.

Raise Good Stock and Reap a Golden Harvest We don't boast on a few high record birds but our extraordinary flock's average has attained our present high s'andard. Intelligent chick buyers look for these qualities and we assure you we have them. Get our 1923 large catalog now, it's free.

Wyngarden Hatchery. Zeeland, Michigan Box M.

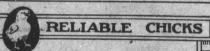
Pure Bred for 1923



Bred to lay from carefully mated Flocks, of standard Quality and for Egg Production. We offer you exceptional values in the breeds, Leghorns, Rocks, Reds, W. Wyandottes, Orpingtons, Minorcas and Anconas. Our prices are right when Quality is in consideration. This should be the main point in view. For success, get our Big Catalog of Chicks and Brooders, we have a special offer for you, also how to care for your chicks after you have them. It is Free.

Wolf Hatching & Breeding Co. Dept. 10, Gibsonburg, Ohio





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By Parcel Post Prepaid. 100% Live Delivery. Give us your order for some of Our Reliable Chicks and we will prove that we give you better chicks for the money than you can get elsewhere. Combination offers and Specials offered. Order early. Write for prices and Free Illustrated Catalog.

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Guaranteed Michigan Bred and Hatched

WHITE & BROWN LEGHORNS, ANC. NAS. 50, 57; 100, 513; 500, 560.
BARRED ROCKS, R & S. C. REDS, 50, \$8 50; 100, \$16; 500, \$75.
L000 orders at 500 rate
RHODE ISLAND WHITES, 100, \$18; 200, \$35.
Postpaid. full live delivery guaranteed. Strong, vigorous Chicks from select, heavy laying flocks. Order NOW right from this ad. get them when you want them. I want your business and will try to hold it. Reference, Holland City State Bank. KNOLL'S HATCHERY, Box H, Holland, Mich.

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Bargain Prices—Write Quick. Best paying, highest quality, Pure Bred Tom

arron and Hollywood White Leghorns—Egg Records 270 to 300 eggs in one year—Brown Leghorns, Anconas, Barred Rocks, Rhode Island Reds, White Wyandottes. Book orders now—get liberal discount. Valuable catalog free.

We guarantee to save you money—give you strong, healthy, perfect chicks, the best that money can buy, guarantee live delivery, and absolute satisfaction. Write today sure.

SUPERIOR POULTRY FARMS
Box' 101 Zeeland, Michigan

Michigan's greatest color and egg strain. Bred from winter layers for thirteen years. Customers report flock average of 24 eggs per hen for January, 2 pound broilers at 7 weeks, 21/2 pound broilers at 9 weeks Write for free catalog quoting prices on eggs and chicks. Rose and Single Combs.

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QUALITY CHICKS 8 1-2c up. Barron English White and Br. Leg. and Anconas. Strong, sturdy chicks from scientifically culled M. A. C. Inspected free range breeders. Ten years of consistent breeding for heavy egg production. Wonderful winter layers. Winners at leading shows. Buy ditrect from Modern 65 acre broudtry farm. Shipped postpaid. Buy ditrect from Modern 65 acre and the second strength of the second strength

CHICKS WITH PEP



Try some of our guaranteed Hogan Tested, Dont-Stop-Laying kind of chicks. They will pay you big. Rocks, Reds, Wyandottes, Leg-horns, Minorcas, Anconas. Orpingtons. Catalog Free. Post-paid Safe Delivery. Member I. B. C. Association

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Make Money Returns commence on your investment in 4½ to 5 months from the time you receive your strong pure bred chicks from our own free range farms of S. C. English White Leghorns. Parned Rocks, Anconas. All breeders inspected and approved, Years of good egg breeding back of them. Our catalog for terms, guarantee, delivery POULTRY FARM, R. 2, Box M. Zeeland, Mich.

Pedigreed S. G. W. Leghorn CHIX American--English Strain

Are you going to buy them from a hatchery or from a BREEDER? Buy from Michigan's Largest Leghorn Farm and haure success. We hatch our own eggs only. Supply limited. Prices reasonable, Satisfaction guaranteed, Descriptive circular tells all about them. It's free.

about them. It's free, Simon Harkema & Son, R. 1, Holland, Mich.



CHICKS \$10.50 AND UP From Hogan tested hens, Wh., Br. & Buff Leghorns, 50, 87: 100, \$12; 500, \$62.50. Bar, Rocks, Anconas, 50, \$7.50; 100, \$14; 500, \$67.50. Reds, Wh. Rocks, Minoreas, 50, \$8: 100, \$15; 500, \$72.50. Buff Orpingtons, Wh. Wyandottes, 50, \$9: 100, \$17; 500, \$82.50. Mixed, 100, \$11; 500, \$52.50. Order now. Catalog Free. Eggs for Hatching, Ref. 4 Banks, Tri-State Hatcheries Box 512, Archbold, Ohio

GUARANTEED BABY CHICKS From World's Champion Layers. Certified, Trap-Nested, Pedigreed, Snowden's English White Lephons, 250-291 Egg records; Sheppard's 351. Egg strain Anconas. Guaranteed Beauting Catalog FeE geal money makers, FRANK A. VAN BREE, Box 32 Zeeland, Mich.



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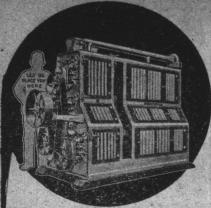
Baby Chicks Selected chicks from the heart of the baby-chick industry. Leading pure breeds from heavy egg producing strains. Alive delivery guaranteed. Send for catalogue and prices. L. Van Hoven & Bro., Zeeland, Mich.

S.C.W. Leghorn Baby Chic's, From large an Strain of heavy winter egg producers. All eggs et produced by our own breeding pens. Price \$12 per 60. Cruse & Warner, Hudson, Mich.

5 to 6 lb. White Leghorns Larger hens, better winter layers, Send for free catalog full of information.

A. W. WAUCHEK. Gobleville, Mich.

Additional Poultry Ads. on Page 243



You Can Make \$500.00 to \$1000.00

a Month Milling

"Flavo" Flour

in your community on this New Wonderful Mill—no previous milling experience necessary.

A North Dakota miller writes: "I cleared \$500.00 last month on my 25 bbl. Midget Mill."

A Tennessee customer says: "My books show a gross profit of \$23.50 per day for my Midget Mill."

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Be the Mill owner and have a permanent business that will earn you steady profits the entire year. Grind the home-grown wheat in your mill, supply community with flour and feed.

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"SEE-THRU" Teat Cup
Patented exclusive

United Engine

THE GREAT UNITED LINE FARM MACHINES



Dairy Farming

Children Tell Value of Milk

O one knows the influence to a quart and a pint every day.' come from teaching school chil- "We have some very interesting timable.

national dairy council. The reading added." of them will make you laugh and, posthe-shoulder message:

"When you drink milk you grow strong and fat. It is better to drink ed to get milk at school. I also made milk because it makes you strong, but up my mind to take it. I have taken when you eat candy you get a toothache. If you drink milk you will be a good boxer. So if any boy comes along people ought to drink more of it. I and gets wise with you and puts up a fight you can give him a wallop in the nose. Then you can say to him, 'I drank milk and you didn't, so I got strong. When I started to drink milk the best of you.'

"When you drink milk and the get weighed, you will be sure to weigh any more." enough. Before milk came around to the schools the children used to grow milk came the children used to sit school instead." still and look very weak. But now they make a mad rush for the milk. Milk will give you good health and strength. When you drink milk, you grow big and tall. It is not good to be a little boy because all the big boys will call you 'shrimp,' 'shaver,' and 'rat.' It is better to drink milk and get your health than not to drink milk and get your wealth, because health is better than wealth."

Some Interesting Extracts from Other Letters.

"When I was in the sixth grade I was not doing good work. I knew that see what the milk did."

dren the value of drinking milk. posters that you sent us. We also The good to be accomplished is ines- have your milk buttons that you sent us. We have a poster that our teacher Here are some testimonials written made. It is a long piece of paper and by children themselves, showing in a at the top there is a picture of a bottle variety of ways, how the dairy diet is of milk. Every one in the room that building strong bodies and minds for takes milk gets their name on the list our boys and girls. These letters came and a blue star placed beside it. Every in a single day to the offices of the week they take milk another star is

"I drink milk now and like it. When sibly, cry. Robert Glen Harvey, a real I drank milk before it made me kind school-boy, gives us this straight-from- of sick. But I know a girl that did not like milk but she took it and it made her big and strong, so we startit quite a while now and like it very much. Milk is very good for you and am sorry I did not force myself to take it long before I did."

"Before taking milk I was not very I got very strong and big."

"I think milk is better than candy. school nurse comes along for you to I am not going to eat so much candy

"My New Year's resolution this year was, 'no more candy.' I am going to very hungry at recess time. Before spend some of my money for milk at

> "Each year a doctor comes to the school and weighs us. This year I weigh 101 pounds, and only about two months before when I weighed myself I only weighed ninety-four pounds."

> "We have your posters and your pins. We will wear the pins and look at the posters. I drink milk for breakfast, dinner and supper. It is better fun to drink it with a straw."

CHAPPED TEATS.

CHAPPED teats are very common in winter and often caused from I was going to be put back. Then I washing the udder, or the teats getstarted to drink milk and it helped me ting wet and chapping in the cold out a lot. I was not kept back, so you wind. I find some cows give more trouble from this source than others. "I feel much stronger now. I drink If it is necessary to wash the udder,



All the Gold mined since 1885 would be required to pay for One Year's Dairy Products.

The United States is a great gold producing country; and yet, according to Dr. Larson, head of the U. S. Dairy Division, it would require all the gold produced in the United States since 1885, up to the present time, to pay for the farm value of one year's dairy products.

Dairying Pays Best
During 1922, grain marketed
through dairy cows has returned its owner 32% more than if marketed through beef animals; 28% more than if marketed through hogs, and 41% more than if marketed as grain.

Yet in spite of this enormous production and relatively greater profit, dairying has not been overdone. Dairy products are higher in price than a year ago. there are less in storage, and consumption is steadily increasing.

Cream is Gold

If every cream separator user thought of gold in place of cream, every separator would be selected only on the basis of greatest skimming efficiency and durability, and not for some "talking point" or "low price." No one would deliberately throw gold away, and yet there are hundreds of thousands of wornout and inferior cream separators in use today, wasting cream twice a day, 365 times a year.

De Laval the Best

The De Laval is the world's greatest cream saver, as proved by the fact that there are more in use than all other makes combined—that 98% of the best creameries use De Lavals—that they are used and endorsed by dairy authorities and leading dairymen everywhere—and have won thousands of contests and over 1000 grand and

first prizes.

It is the best and the cheapest cream separator. One can be bought on such easy terms that it will pay for itself in less than a year. Why not see your De Laval Agent at once, or write us for full information?

The De Laval Separator Co.

NEW YORK
165 Broadway 29 E. Madison St. 61 Beale St.



New Farm Bureau Officers

TOP row, left to right: E. A. Beamer, Blissfield, Live Stock Exchange, director; C. L. Brody, secretary-manager; Mrs. Edith M. Wagar, Carleton, director; Fred Smith, Elk Rapids Potato Exchange director; Fred Van Norsdall, Three Rivers, treasurer; L. Whitney Watkins, Manchester, director; W. E. Phillips, Decatur, president and Elevator Exchange director; Jas. Nicol, South Haven, director; M. B. McPherson, Lowell, director. Bottom row, left to right: E. C. McCarty, Bad Axe, director; M. N. Noon, Jackson, vice-president and Milk Producers' Association director; George Friday, of Coloma, director; Verne Gormley, of Newberry, director.



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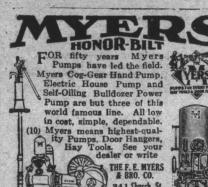
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of the Holstein Cow.

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The strongest in Ohio.

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THE SCIOTO LIME & STONE CO.

DELAWARE, OHIO.

or even sponge it off, the teats should be thoroughly dried. I have found it an excellent practice where cows give trouble with chapped teats to use vaseline while milking, just enough to grease the teats. By using vaseline during the process of milking, the oil is worked into the cracks and seals them up, keeping the air out and preventing further chapping.

Not infrequently cows contract the habit of kicking from no other cause than chapped teats. Cows subject to chapped teats should be given special care to see that the teats are dry after milking and before turned out for exercise. The milking should be done carefully and in a gentle manner, not to cause irritation. Do not punish a cow for kicking or stepping away from the milker while being milked if she is suffering from chapped teats as they are very painful.—Leo Reynolds.

STOCKS OF CREAMERY BUTTER ARE LOW.

THE government tells us that the amount of creamery butter in storage is unusually low. On January 1 these stocks amounted to 26,941,000 pounds, as compared with a five-year average of 51,093,000 pounds. During the month of December the amount in storage decreased forty-four per cent. Of packing stock butter the same may be said, the volume in storage the first of the year being about one-third of the average for the previous five years.

FALL FRESHENED COWS ARE THE BEST PRODUCERS.

I N scanning the reports of cow-testing associations we are moved to state that it is more desirable from a production standpoint to have the cows come fresh in the fall than at any other season. In sixty-four cowtesting associations with a total of 10,870 cows, those freshening in September, October and November averaged 6,689 pounds of milk and 268 pounds of butter for the year. Those freshening during the winter, spring and summer periods produced 6,439 pounds, 6,951 pounds and 6,842 pounds of milk, and 258 pounds, 236 pounds and 236 pounds of butter-fat respectively. These averages lead us to say "Amen" to the long-held conviction of old dairymen for years back that fall freshening cows produce heaviest.

MILKING MACHINES BECOMING MORE POPULAR.

CERTAINLY the milking machine has won its permanent place in the dairy business. Wherever one goes in dairy communities he finds these machines in successful operation.

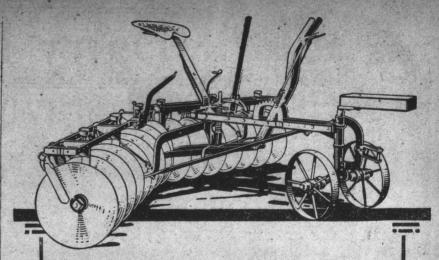
The field is expanding. Reports from the far north show this. In Manitoba one order has just been placed for \$30,000 worth of these machines. The shortage of labor upon farms, and the limited dependability of many of the men available for milking, makes the milking machine a life-saver for many farmers.

LAST CALL ON FILLED MILK BILL.

THE time has come where every dairy interest must unite in a final effort to get a vote in the senate or the bill will not pass at this session and the whole fight must be made over from the beginning. If you want the filled milk industry to continue as a menace against the dairy industry, keep still and do nothing. If you want the Voight bill to pass, write now to your senator, asking to have a vote on the Voight bill. It has been reported favorably by the senate committee on agriculture and is on the senate calendar. Write your senator today.

SEPARATOR

ASOLID PROPOSITION to send new, well made, easy running, perfect skimming separator for amounting warm or cold milk. Makes heavy or light cream, lillustrates larger capacity may be considered to the voight bill. It has been reported favorably by the senate committee on agriculture and is on the senate calendar. Write your senator today.



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Conforms to uneven surfaces of the field—does a better job of disking than any rigid or less flexible harrow on rough ground, over ridges and in dead furrows.

John Deere Model "B" Disc Harrow

Completely disks the soil. By means of third lever and powerful pressure spring the gangs of this harrow can be given the required pressure to make the harrow penetrate, at even depth, its full width under all the above soil conditions.

The Model "B" is extra strong. It has all-steel frame; double bar, riveted gang frames; convenient grease cups; spring steel, oscillating scrapers.

Made in standard widths with standard size discs. Rear gang extra—also tractor hitch.

FREE BOOK. Write today for booklet describing this flexible harrow. Tell us what other implements you are interested in and we will also send you "Bookkeeping on the Farm"—just the book in which to keep your records. Address John Deere, Moline, Illinois and ask for Package BX 422.

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An inventor who could develop an automobile, a railroad car or any other conveyance on wheels which would perform such a feat would be considered a wonder. But such is the record of regular accomplishment by the Auto-oiled Aermotor during the past eight years in pumping water.

accomplishment by the Auto-oiled Aermotor during the past eight years in pumping water.

Did you ever stop to think how many revolutions the wheel of a windmill makes? If the wheel of an Aermotor should roll along the surface of the ground at the same speed that it makes when pumping water it would encircle the world in 90 days, or would go four times around in a year. It would travel on an average 275 miles per day or about 30 miles per hour for 9 hours each day. An automobile which keeps up that pace day after day needs a thorough oiling at least once a week. Isn't it marvelous, then, that a windmill has been made which will go 50 times as long as the best automobile with one oiling?

The Auto-oiled Aermotor after 8 full years of service in every rid has proven its ability to run and give the most reliable service.

part of the world has proven its ability to run and give the most reliable service with one oiling a year. The double gears, and all moving parts, are entirely enclosed and flooded with oil all the time. It gives more service with less attention than any other piece of machinery on the farm. To get everlasting wind-mill satisfaction buy the Auto-oiled Aermotor, the most efficient windmill that has ever been made.

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Change power as you change jobs—Turn on
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WHEN delay means hundreds of dollars loss—possibly almost a year's profits—because of lame-mess, then Save-The-Horse saves you. It cures SPAVIN, Ringbone, Thoropin, or,—Shoulder, Knee, Ankle, Hoof and Tendon disease; while horse keeps working. Don't take a chance this years on being delayed at a vital time. Have a bottle of SAVE-THE-HORSE ready for emergencies.

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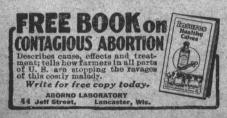
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will reduce them and leave no blemishes. Stops lameness promptly. Does not blister or remove the hair, and horse can be worked. \$2.50 a bottle delivered. Book 6 R free.

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RY a Michigan Farmer Liner, they bring results.

Our Stock Breeders' Page

By P. P. Pope, Field Editor

THE Shorthern show and sale is event in Michigan Shorthern circles. It was pulled off in the usual good time and way in the judging arena at the Michigan Agricultural College on February 2. The cattle were a useful lot and went into new homes at very conservative prices.

It is usually the case at these sales that the cows and heifers sell more readily than the bulls, consequently the consignment of bulls is limited. This year the opposite was true and several prospective bull buyers went home bulless.

The breeders were favored this year by having among them the executive head of the America Shorthorn Breeders' Association, F. W. Harding, whose good work at the ringside, and as judge of the cattle show, was greatly appreciated. Much credit is also due the state association secretary,

ly appreciated. Much credit is also due the state association secretary, Professor Edwards, for his faithful efforts as sale manager, as well as the auctioneers, the sale committee, and to E. W. Erwin, Saginaw, \$120. the out-of-state visitors.

The beautiful white two-year-old heifer shown by John Lassister's Sons had little difficulty in working her way to the championship of the show, or to the top of the sale. She went to W. C. Thatcher, of Flint, at \$310. Robert Booth, of Owosso also, landed a alogued sold for a total of \$5,500, an

Eula—by John Lessiter's Sons, of Clarkston, to A. & F. Parmenter, of Durand, \$230.

College Sharon 6th—M. A. C., to Fred Hampton, Leslie, \$130.
College Missie 10th—M. A. C. to J. W. McShane, Bay City, \$165.

FAIR VIEW POLANDS OVER THE TOP.

THE Poland China spring sales start off with a bang. Doris Hover, of Akron, pulls off a good one February 1. The gang was all there, 200 and good red cow at \$245, consigned by more, and they came from many L. P. Otto. The forty-two head cat-points in the state. It was an attractive lot of hogs that Mr. Hover put average of \$131 per head. Those sell- through the ring, well-grown, well-coning for \$100 and over are listed below. ditioned, and well-bred, the kind to demonstrate the superiority of purebreds for pork production.

The auctioneers, Colonels Waffle

	1.	John Hickey, Fairgrove	\$77.00
	2.	Walter McCaughey Croswell	85.00
ě		A. Tompkins, Fairgrove	
	5.	Albert Peters, Akron	69.00
	6.	John Uhl, Unionville	67.00
		Wm. Carpenter, Caro	
		Wm. Turner, Akron	
	9.	I. Heckroth, Unionville	45.00
	10.	M. McCallum, Unionville	70.00
	11.	Fred Bell, Akron	52.00
		Fred Bell	
ğ	13.	Ward Parsell, Caro	65.00
ğ		Arthur Tompkins	
	15.	H. Kramer, Unionville	70.00
		John Uhi	



Herd Sires Like This "Take the Joy Out of Life" for Scrubs.

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17. Henry Rohlfs, Akron	50.00
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19. Frank McCreedy	60.00
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28. G. W. Montie, Caro	55.00
30. Morley Bush, Unionville	56.00
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36. Cecil McPherson, Akron	60.00
43. Wm. Childs	40.00
45. Wm. Colling, Colling	60.00

NO FARM CURE-ALL.

(Continued from page 218). as much, and perhaps more, to sell a product of poor quality than one of good quality.

"The closer the farmer can relate his production to the nearest market, the less he will find it necessary to go

for quality. It costs just as much to sell poor potatoes as good ones, and you're decreasing rather than encouraging consumption. I haven't had a decent potato since I went to Washington twelve years ago, and I don't think I've had the same variety twice.

"But we can't carry out this program if every farmer does just as he pleases. For this program we must have leadership, organization and cooperation. Everybody must surrender his individual judgment and part of his control for the common good. Most of us, when we think of cooperation, want the other fellow to cooperate with us. The greatest obstacle to the farmer is the farmer himself."

Mr. Anderson declared that he came out to Michigan from Washington chiefly because he desired to lend some inspiration to the "first sound agricultural program proposed in any state," and said, "I pay my tribute of respect and admiration to the man who had courage and intelligence enough to get the facts and to present the facts which inevitably follow, without fear or favor."

The program Thursday afternoon was devoted chiefly to the agricultural shepherd dogs; Pupples; 10c illustrated instructive situation in Europe. Signora Agresti list. W. R. Watson, Box 35, Macon, Mo. situation in Europe. Signora Agresti described the work of the International Institute of Agriculture, which is concerned primarily with the dissemination of information upon agriculturall topics but which clarated to the concerned primarily with the dissemination of information upon agriculturall topics but which clarated to the concerned primarily with the dissemination of information upon agriculturall topics but which clarated to the concerned primarily with the dissemination of information upon agriculturall topics but which clarated to the concerned primarily with the dissemination of information upon agriculturall topics but which clarated to the concerned primarily with the dissemination of information upon agriculturall topics but which clarated to the concerned primarily with the dissemination of information upon agriculturall topics but which clarated to the concerned primarily with the dissemination of information upon agriculturall topics but which clarated to the concerned primarily with the dissemination of information upon agriculturage of the concerned primarily with the dissemination of information upon agriculturage of the concerned primarily with the dissemination of information upon agriculturage of the concerned primarily with the dissemination of the concerned primarily with al topics, but which aims also to promote peace and good feeling throughout the world. Louis G. Michael, foreign agricultural economist with the United States Department of Agriculture, gave many interesting details concerning the changes wrought in Europe by the war. Because of the breaking up of the large estates, European agriculture has become diversified, with the result that not only wheat, but other cereals and live stock now find their way onto the international

Tuesday, "live stock day," was featured with an address by Dr. W. J Kiernen, of the Bureau of Animal Industry, Washington, who emphasized the importance of the campaign to the eradication of bovine tuberculosis. Charles Snyder, editor of the Chicago Daily Drovers' Journal, discussed "Some Economic Phases of the Live Stock Industry," early in the after

At the last general session, held on Friday morning, February 2, Dr. Eugene Davenport, in his second address of the week, urged his hearers to support President Friday's request for appropriations from the legislature. Dr. Charles F. Kent, of Yale, and James Schermerhorn, of Detroit, were the other speakers of the morning.

CLASSIFIED ADVERTISING

This classified advertising department is established for the convenience of Michigan farmers. Small advertisements bring best results under classified headings. Try it for want ads and for advertising miscellaneous articles for sale or exchange. Poultry advertising will be run in this department at classified rates, or in display columns at commercial rates.

Rates 8 cents a word, each insertion, on orders for less than four insertions; for four or more consecutive insertions 6 cents a word. Count as a word each abbreviate, mittal or number. No display type or illustrations admitted. Remittances must accompany order.

Rate estate and live stock advertising have separate departments and are not accepted as classified. Minimum charge, 40 words.

		n Effect	October 7, 192:	
	One	Four	On	e Four
Words	time	times	Words tim	e times
10	. \$0.80	\$2,40	26\$2.0	8 \$6.24
1	88	2.64	27 2.1	6 6.48
2		2.88	28 2.5	4 6.79
3	1.04	3.12	29 2.3	
4		3.36	30 2.4	
5		3.60	31 2.4	
6		3.84	32 2.1	
7		4.08	33 2.0	
8		4.32	342.1	
9		4.56	* 35 2.5	
		4.80		
0			36 2.8	
11		5.04	37 2.5	
2		5.28	38 3.0	
3		5.52	39 3.1	
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MISCELLANEOUS

into the international market, and the less the cost of getting his product to market, the greater will be his net return.

BOYS, GIRLS—15 big packages cucumber seed post-paid \$1.00; value, \$1.50. Recommend them to your friends. Very heavy bearer, excellent pickling, tender slicing, Michigan grown. Absolutely 1922 crop, This means dependable quick germination—the seed your neighbors want. Guarantee: money refunded for seed returned within 14 days. Order now, pay when received. Sweet Home Seed Farm, Pentwater, Mich.

SAVE 35% of money you now spend for gasoline by using a Sturdevant Aerator. It eliminates carbon, makes engine run smoother with less vibration. Highly recommended by thousands of satisfied customers, Fits any engine. Easily installed. Price \$3.50 postpaid. Agents wanted. Earl Clayson, 1407 Lafayette Blvd. W., Detroit.

STRAWBERRIES—Progressive Everbearing, bear all summer. Good healthy plants. Never a failure. We have same customers order 3 years. 75c per bundred prepaid. Frank Rich, Allegan, Mich. State

SWEET CLOVER SEED—White or yellow biennial Inoculator for alfalfa, sweet clover, soy beams. Best pure culture bacteria in soli base. Guaranteed. Bushel-size can postpaid, 90c, E. E. Basil, Sweet Clover Grower, Latty, Ohio.

NATURAL LEAF TOBACCO—Select quality. Chewing 5 pounds \$1.75; 10 pounds \$3.00; 20 pounds \$5.00. Smoking 5 pounds \$1.50; 10 pounds \$2.59; 20 pounds \$4.00. Try it at our risk; money refunded it tobacco returned. Cooperative Tobacco Growers, Sedalia, Ky.

HOMESPUN SMOKING TOBACCO—Mild and mellow 10 lbs. \$1.50; 20 lbs. \$2.75; delivery guaranteed. We furnish free recipe for preparing. Smoking Tobacco Exchange. Sedalla. Kentucky

TOBACCO—Extra Smoking, 5 lbs., \$1,00; 10 lbs. \$1,50; 20 lbs., \$2,75. Chewing, 5 lbs., \$1.50; 10 lbs. \$2,75. Quality guaranteed. O'Connor Smokehouse S133. Mayfield. Ky.

SILVER FOXES—Very special prices on best quality, registered, ininteen-twenty-three pups bargained for now. Buy now, pay later, save one-third. Volmari & Hughes, Muskegon, Michigan.

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GRAPEVINES-1000 Concord \$10 up, less 25% on week. Save Address-Gobles, Mich. Nurseries

DOGS

POULTRY

WE SPECIALIZE in printing for Poultrymen, Hatch erics and Farmers. Sample Stamp please. Mendell' Printing Company, Grand Rapids, Michigan.

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RHODE ISLAND REDS—Rose Comb Cockerels, hen-hatched, farm raised. Big, thrifty, dark colored birds from prize winning strains, 34 to \$7.50. To specials at \$10 each, Careful attention to mail orders Bluwell Stock Farm, Tecumseh, Michigan.

GET EVERGREEN POULTRY FARM'S chea prices on pure bred poultry, chickens, turkeys, ducks geesse, guineas, baby chicks best laying strain. Illurated catalog free. Evergreen Poultry Farm Hatch eries. Hampton, Iowa.

HATCHING EGGS WANTED. We can use your output in any of the odd breeds such as Houdans Polish, Cornish, W. Minoreas. Write us at once Chick Hatchery. Dept. 6, Shelbyville, III.

WALKER'S R. C. REDS State cup winners. Breeding cockerels \$3.00 to \$10.00. Pullets \$2.50 to \$5.00 Some good hens 2 for \$5.00. Red Acres Poultry Farm. Battle Creek, Mich., B. No. 6, Box 195B.

CABALL'S ROCKS lead them all. Leading hen over all breeds. National laying contest official records: 207 to 292. Chicks and eggs. G. Caball. Box M. Rudsanville. Mich.

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RED COCKERELS—Both combs. Michigan's best strains. \$5.00 each. Only few left. Will W. Davy. Petoskey. Mich.

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BOURBON RED TURKEYS—Young and mature stock. Chas. A. Beatty, Milford, Mich.

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WHITE WYANDOTTES and Rocks \$18 per 100; \$9.50 for 50 and \$4.75 for 25. Barred rocks and R. I. Reds \$17 per 100; \$8.75 for 50 and \$4.50 for 25. White Leghoms \$14 per 100; \$7.50 for 59 and \$4.50 for 25 does not sufficiently a sufficient to the suff

CHICKS GUARANTEED — Healthy, sturdy thriving chicks, Flocks that are mated with Michigan Agricultural College cockerels, Barred Rocks, S. C. Anconas, White and Brown Leghorns, pullets and breeding cockerels. Safe arrival, postage paid, catalog free. Fairview Hatchery and Poultry Farms, Route 2, Zeeland, Mich.

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WANTED—agood, reliable man with first class references, who thoroughly understands the soil and care of all kinds of fruit grown in Michigan as head man my 75 acre farm eight miles from Fennville, Mich. Must have wife who can take care of chickens, etc. make butter and work in fruit. New bungalow with furnace heat as tenant home. M. A. Stream 1617 Hiaman Ave., Evanston, III.

WANTED—Man and wife; woman to assist in owner's residence, man to be good milker and have knowledge of gardening. Wages for both \$85.00 and board per month. All modern conveniences. Bazley Stock arm. Ypsilanti, Mich.

WE PAY \$200 monthly salary and furnish rig and expenses to introduce our guaranteed poultry and stock powders. Bigler Company, X 683, Springfield.

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A THOROUGHLY up-to-date, college trained, life experienced married man (no family) desires position as dairy farm manager. Has been in charge of St. Austell Farms for more than three years. Unquestionable references. D. A. Greene, St. Austell Farms, Jackson, Mich.

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White Leghorns and Anconas. Our stock is scientifically culled by experts and headed by large vigorous nales. Thus assuring you strong, healthy, bred to lay chicks. That will live and grow. Real monog makers, 100% live delivery guaranteed. Post Paid, Catalog free. Sterling Pouttry Farm & Hatchery, Zeeland, Mich. (Member Michigan Baby Chick Ass'n.



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is not tolerated.

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Registered Aberdeen-Angus 10 helfers, 6 bulls
Best of breeding. The growthy kind that make good,
Reasonable, Inquire of F. J. Wilber. Clio, Mich.

Registered Guernseys 2 Choice Heifers about a yr. old for \$300. Bull old enough for light service, out of Ester Erwin who is making a fine record \$150. J. M. Williams, No. Adams, Mich.

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We have what you want in BULL CALVFS, the large, fine growthy type, guaranteed right in every way. They are from high producing A. R. O. ancestors Dam's records up to 30 lbs. Write for pedigrees and quotations, stating about age desired.

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Born Sept. 36, 1922. His dam recently completed semi-official test giving 12,475.3 pounds of milk and 449,004 pounds of butter. Average figures recently given show 3600 pounds of milk in a year for Michigan cows. You will notice that this cow shows an increase of 400%. This milk production combined with show type is a decided asset as a future here sire.

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Holstein Friesian heifer and bull calves, purebred progressered and high-grade. Price \$20 up. Splendid individuals and breeding. Write us your equirements. Browneroft Farms, McGraw, N. Y.

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Sell 45 Bred Sows "Hand Picked" from Twenty Herds

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Feb. 22, 1923 at 12:30 P. M.

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5 yearling bulls 8 yearling heifers
10 of the above sired by our \$5200 Repeater bull.
We have others not related. This is an opportunity to start in good stock at a moderate price.

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Polled Hereford Cows

Cole & Gardner, Hudson, Mich.

Polled Hereford bulls for profit-only one left-a good one. Ask for price and description. Lloyd F. Wilson, Angola. Ind

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Polled Shorthorn Cows & Heifers in calf and calf by side. Also a few young bulls. Herd headed by Victor Sultan and Royal Non-

We can please you in richly bred cattle with quality at farmers' prices.

GEO. E. BURDICK, Mgr.

Branch County Farm.

Coldwater, Mich.

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Special offer on several bulls at Farmers' prices. Suitable for grading up purposes where beef is required. Also several high class herd headers of the best of breeding.

C. H. Prescott & Sons,

Shorthorns Bidwell Revolution Jr. heads herd wood 3d, 2d Dam. Imp. Rosewood Stit. Now-offering one good roan two year old bull out of a Marr Marriagold dam, also a few cows and heifers sate in calf. From pt attention to correspondence-visitors welcome State Accredited herd. One hr. from Toledo. O. N.Y.C. By BIDWELL STOCK FAR. 1, Tecumseh, Mich., Box D

Burr Oak Farms offer ready for service Shorthorn bulls, sired by Flash Hallwood also helfers, all reasonably priced, F. R. CLEMENTS Saline, Mich.

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Milking Shorthorns priced reasonably. An according credited herd selected for beef and milk. Beland and Beland. Tecumseh, Michigan

Clayton Unit Shorthorn Breeders' Assn. Scotch Scotch Top and Milking Shorthorn for sale all ages. W. J. Hinkley, Sec'y, Flushing, Mich

DOUBLE Standard Polled Shorthorns, milk strain.
Bulls and Heifers all ages at farmers' prices.
Paul Quack, Sault Ste. Marie, Mich. Red Poll Cattle, Bulls, Cows and Heifers E. S. Carr, Homer, Mich.

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MICHIGANA FARM, Pavilion, Mich.

SPROOKWATER DUROC JERSEYS
SPRING GILTS BRED FOR MARCH AND APRIL LITTERS
ALSO A FEW GOOD BOARS
Herd sires: PanamajSpecial Sith, Big Bone Giant Sensation. Brookwater Principal Col. and Brookwater Farm.

BROOKWATER FARM.
Ann Arbor, Michigan H. W. Mumford, Owner,
J. B. Andrews, Lessof.

We can spare a limited number of big, roomy, growthy bred gilts due to farrow in April, priced very reasonable. Can also spare a few fall pigs either sex. Write for prices.

LOEB FARMS

Charlevoix,

Michigan

"The Home of Grand Champions"

Auction Sale of Duroc SOWS and FALL BOARS

February 27, 1923 FOR CATALOG ADDRESS Matt Matthysse, Byron Center, Mich.

Whitney Farms Durocs

We offer an excellent line of bred sows and gilts as well as two boars that are real sires. Priced to sell. Write for pedigrees. WHITNEY FARMS. Whitney, Mich

Woodlawn Farm Duroc Hogs meet ments, length, size and quality. Young stock for sale at reasonable prices and fully guaranteed. Write your wants. W. E. BARTLEY. Alma, Mich

Duros Fall Yearling

and spring boars. Some real herd prospects sired by O. C. K. Col. 2nd. All Col. of Sangamo and Diamond Joe. Priced to sell. Fall pigs either sex. Write for description and prices.

W. C. TAYLOR. Milan, Mich.

Duroc—Jerseys A few Pathfinder Gilts Foust's Top Col., E D. Heydenberk. Wayland, Mich.

DUROC-JERSEYS 15; bred Gilts for sale. Hastings, Mich. Duroc fall boars sired by Master Col. Walt. Bred sows and gilts. Oholera immune.

JESSE BLISS & SON, Henderson, Mich.

Is It Worth While?

A real boar pig sired by Woodford Sensation. Dams of Defender or Pathfinder breeding.

We have them of Sept. farrow, not only showing extreme quality, but greater size than you will expect to find. Follow M 29 to

Kope-Kon Farms, Coldwater, Mich.

CHESTER WHITES Boars all sold. Bred sow sale March 8th. FRED L. BODIMER, Reese, Mich.

Chester Whites. Choice spring gilts bred to Giant.
2nd prize boar at State Fair. Also fall gilts
LUCIAN HILL, Tekonsha, Mich

CHESTER WHITES Bred sows and gilts, summer boars and fall gilts C.O.D. ALBERT DORR, Clinton, Mich.

Feb. 27, 1923, P. M.

Bred for Mar. & Apr. farrow

EMERY H. JEWETT

Mason, 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.

ANDY ADAMS, Litchfield, Mich. O. I. C. 20 large growthy gitts farrow in Mar also fall boar pigs. CLOVER LEAF STOCK FARM, Monroe, Mich.

O. I. C's. 20 last spring gllts bred to farrow in Mar. and April. big growthy stock recorded free. 3 mile west of Depot. Cita's phone. OTTO B. SCHULZE, Nashville, Mich.

O. I. C. GILTS and April farrow.

H. W. MANN, Dansville, Mich.

O. I. C. Bred glits and boars all sold, Am tak
A. J. BARKER & SON, Beimont, A ich.

Winter Care of Brood Sows

By E. W. Gage

P RACTICAL hog raisers recognize that the brood sow's care is more difficult in winter than summer. Exercise is more difficult, and this is needed in order to keep the breeder in good condition, which prevents the laying on of an excess of flabby fat. The excessively fat sow is more liable to drop her pigs small, puny and

During the period of gestation let the sow have the run of the barnyard, where she can root in the manure pile or around the straw stack, for scattered grain. The sow will do very well under such conditions if provided with comfortable sleeping quarters free from draughts, dry and plenty of bedding. However, should these conditions be impossible, if a portable pen can be placed in a field with the front of the pen facing the south, and plenty of dry bedding provided, the house well banked on the outside, the construction being such as to prevent draughts, it will be found that the sow will be very comfortable.

The feed trough should be placed thirty or forty yards from the pen to force the sow to come out for food, and in walking backwards and forwards she will get the necessary exercise. Remember that an active, healthy mother produces strong, healthy offsprings.

In feeding the brood sow the aim should be to keep her well nourished, never under or over-fed, but with sufficient feed to supply all requirements in building bone and good firm flesh. During cold weather an excess of liquids should be avoided because of the extra effort on the part of the animal to heat up this liquid. The meal should be allowed to soak for a considerable time, to become moistened throughout, using slop or dairy byproducts.

Such meals as shorts or middlings and ground oats are to be preferred but the use of some of the fleavier meals is permissible, such as corn, barley, or pea meal, but the latter should be fed sparingly and in a mixture with the first mentioned meals. Mangels or beets should be available for feeding in connection with the meal ration, these should be given at the mid-day feeding, and should be fed whole. The grain ration is fed morning and evening. Roots add succulence to the diet, keeping the digestive organs cool and in good order. By feeding roots, the amount of liquid required by the sow will be greatly lessened.

If the sow is confined to a pen where the floor is cement or wood, a few sods should be kept on hand to supply mineral matter; these can be thrown into the pen as required. Sulphur, salt and charcoal kept in a separate box will prove beneficial as a regulator and appetizer.

For sows under such conditions, care should be taken to avoid the laying on of excess fat, and where a ration comprised entirely of meal is fed, without care, the sow is liable to derangement of the digestive organs, results in the development of an abnormal appetite at farrowing, and is a cause of the sow devouring her young.

Feeders are taking out more thin steers than usual at this season. Purchases for summer grazing also are being made. At prevailing discounts some of the low grades of light steers, if thrifty, look attractive, provided that the feeder can crowd them for the market in May and early June when plain light killing steers are abnormally scarce.

Veterinary.

CONDUCTED BY DR. W. C. FAIR.

Advice through this column is given free to our subscrib-s. Letters should state fully the history and symptoms of the case and give, name and address of the writer. Initially are published. When a reply by mail is requested the tryice becomes private practice and \$1 must be enclosed.

Miscarriage.—I have a two-year-old heffer that lost her calf five months before time. She had a fall. She is giving three quarts of milk at a milking. Is her milk fit to use? C. V. G., Harbor Beach, Mich.—If she has no vaginal discharge breed her right away. Her milk is fit for use, but will she prove profitable for dairy use? It is doubtful.

Skip Irritation—Our two-year-old.

Skin Irritation.—Our two-year-old heifer has bald patch around the eye, another sore spot between fetlock and knee. We believe it is caused by running through cornstalk roughage. We also have another cow showing same two transports. Last year our cattle sot symptoms. Last year our cattle got well soon after they were turned out to pasture. E. A. W., Lansville, Mich.—Apply one part oxide of zinc and five parts vaseline to sore parts once a day. Keep the cattle out of the lot where the corn fodder stands.

where the corn fodder stands.

Cattle Lice.—I have eight head of cattle that are covered with small brown lice, and would like to know what will kill the lice. W. E. R., Dryden, Mich.—If the lice are the biting variety, mix one-half ounce of sodium fluorid in one gallon of water and cautiously spray small quantity on cattle. Don't apply it near eyes, nose or anus for if you do it will cause considerable irritation. Dr. Hall recommends a powder composed of one part sodium fluorid to five parts of wheat flour. Use a blow gun or sifter, but don't use too much. One application might be sufficient. One part coal tar disinfectant and thirty parts water will kill the blood-sucking louse. Clean and whitewash your cow stable, use fresh limewash.

Tuberculosis.—Am anxious to know if my rabbits are fit for food. Their liver is covered with white spots. C. B. L., Vanderbilt, Mich.—Although not by any means immune from infections by the bacillus tuberculosis, the disease is not very common in the rabbit; however, I believe your rabbits are infected. Of course, if the liver is the only organ of the body which is diseased the remainder can be used for food with safety.

Itchy Cattle.—My cattle must be

Itchy Cattle.—My cattle must be itchy for they have rubbed themselves stchy for they have rubbed themselves so much they have some raw spots on body. I have looked for lice and found none. C. M. F., Remus, Mich.—First of all, your cattle may have itchy skin as the result of filth, lack of grooming may have caused it. If you will apply one part coal-tar and thirty parts water it will help them. Dusting on flowers of sulphur might help them. One part kerosene and five parts vaseline is another remedy. is another remedy.

Contagious Mammitis.—Have had several cows that have lost the use of one quarter and sometimes half of bag. When the cow freshens the quarter falls to give any milk, in some cases a little milk can be obtained the first year, the next year she freshens, can get no milk at all, and that quarter is shrunken. Would like to know if it is a contagious disease, or if anything can be done to prevent it. N. thing can be done to prevent it. N. C., Oxford, Mich.—Mammitis, Contagious Streptococcus is what ails your cows. I know of no better plan than to segregate diseased cows and proto segregate diseased cows and provide separate milker for them. Cleanliness of the udder and compelling the milkers to wash their hands after each cow is milked will prevent spread of the disease. Treat mild cases with warm water injection of three per cent boric acid solution. In more severe cases I always use a one per cent sodium fluoride solution and invariably obtain fairly good results from this kind tain fairly good results from this kind of treatment.

Acid Urine.—I am milking eleven cows, feeding two feeds of alfalfa, one of mixed hay per day. I have also fed them ground oats, peas, and potatoes night and morning. About a week ago most of the cows were switching their tails, and seemed to suffer pain while passing water, besides they urinated too often, passing only a small quantity at a time. I thought they swelled some behind. A. G. M., Cathro, Mich.—Discontinue feeding potatoes and give them plenty of baking soda in their feed and they will soon be well. Commence by giving each cow two tablespoons at a dose two or three times a day.

N. F. BORNOR'S

Second Annual Sale of LARGE TYPE POLAND CHINAS Wednesday, February 21, 1923 45 HEAD BRED SOWS, Cholera Immune

This offering is sired by The Wolverine, M and W's Orange, B's Clansman, Alaska, Black Buster and Daddy Long Legs 2d. Sale to be held in Livery Barn at Parma, Michigan. These Sows sell bred to M and W's Orange, Black Buster and Dady Long Legs 2d.

> Auctioneers: ADAMS & HAYNES Fieldman: P. P. POPE, Michigan Farmer

Nine months time will be given where Banker O. K's. you. Write for Catalog.

43 HEAD LARGE TYPE POLAND CHINAS CHOLERA IMMUNE

Thursday, February 22, 1923 At Farm 31/2 miles west and 11/2 miles north of Manchester, Mich.

Bred to Foxy Clansman, Grand Champion 1922 at Mich. State Fair F's Clansman Grand Champion in 1920.

F's Big Orange Reconstruction Giant Again Bob Clansman and Buster.

WRITE FOR CATALOGUE

AUCTIONEERS: Andy Adams, F. D. Merithew and F. E. Haynes

A. A. FELDKAMP, Manchester, Mich.

Michigan Farmer Representative, P. P. Pope

DISPERSAL SALE

60 REGISTERED HOLSTEIN FREISIAN CATTLE 60 FULLY ACCREDITED HERD

At Ithaca, Mich. Tuesday, February 27th, 1923 50 HEAD FEMALES 50

Bred to and from such sires as King Houwtje Pledge, King Houwtje Korndyke DeKol Woodcrest Hengerveld, King Korndyke Sada Vale 25th, Forest City Pontiac Ormsby King, and Charlevoix Ormsby Netherland.

Sale held under cover at Farm \(^4\) mile west of Ithaca on Colgrove Highway. 60 day retest privileges if desired. 10 months time will be given on approved notes at 7% int. Ask for (World) Catalog Feb. 20th.

MUSCOTT & GRAHAM, Proprietors

Auctioneers: J. D. HELMAN & SON, Ithaca, Mich.

Sale Manager: S. T. WOOD Liverpool, N. Y.

AUCTION SALE

ALL CATTLE IN SALE T B TESTED IN 1923 Registered Holstein Friesian Cattle.

FRIDAY, FEBRUARY 23rd, AT ONE O'CLOCK.

One Mile Southwest of Tekonsha, Mich. On Bus Line from Jackson, Marshall and Coldwater. We are closing out entire herd of pure bred registered Holstein Friesian cattle. This herd consists of 12 cows in milk; balance of herd yearlings heifers, heifer calves, and young Bulls. Included in this sale are 8 daughters of Maryland Alexis Segis No. 238412 whose dam has a record of 20.2 lbs. of butter and 402 lbs of milk in 7 days as a Junior 2 years old, whose sire dam has a record of 38.1 lbs, butter and 578.7 lbs. milk in 7 days as a junior 3 years old. There are also daughters of King Pietje Alcartra, Crown Pontiae Korndyke, Sir Colantha Segis Korndyke, and other good sires.

E. O. PHELPS, Proprietor

Tekonsha, Michigan

HOGS

Chester Whites, We are offering some choice fall pigs, also bred sows and gilts. Prices reasonable. Weber Bros. 10 Mile and Ridge Rds, Royal Oak, Mich.

O.I.C's. Bred Sows all sold. Some young sows for Fall breeding. All sold on approval, reg. Free. One Extra Good 11 month old Boar. Fred W. Kennedy, Plymouth, Mich.

O. I. C's March boars, breed gilts. July and Aug. gilts. Young Brown Swiss Bulls. Milo H. Peterson, Elmhurst Farm, R-2 Ionia, Mich.

O. I. C's. Am offering a few fall boars and 3 gilts bred for May farrow.
C. J. THOMPSON. Rockford. Mich

Large Type Poland China BRED SOW SALE FEBRUARY 22, 1923

Write for Catalogue
A. A. FELDKAMP, Manchester, Mich

Leonard's Big Type P. C. gilts sired by Leonard's Liberator and Orange Clansman and fall Pigs at bargain Prices. E. R. LEONARD, St. Louis, Mich

Saginaw Valley Herd of O.I.C. & Chester White Swine, O.C. Mich. Boy and Selection 1st. bred to Jumbo's Giant 1st. son of Grand Champion Boar at Mich. State Fair. Photos on request, John Gibson, Fosters, Mich. R. 2.

LARGE TYPE P. C. As good as they grow. Fall pigs either sex. Bred sows for sale sired by the Wolverine. M. & W.s. Orange, B's Clansman, Alaska and Black Buster, Cholera immune. Sale February 21st.

N. F. BORNOR. Parma, Mich.

Choice Gilts \$25 to \$40. Boars \$30. Fall Pigs \$15. HART AND CLINE, Address F. T. HART, St. Louis, Mich.

Large Type P. C. Largest in Mich.
A few fall pigs for side. Sired by "The Wolverine" a grandson of "The Rainbow and Big Bob" the greatest yearling boar I ever owned has size combined with quality Come and see the real kind.
W. E. LIVINGSTON. Parma, Mich

Francisco Farm Poland Chinas

Spring gilts sired by a grandson of National Grand Champion Sow and bred to a grandson of National Grand Champion boar Now ready to ship. P. P. POPE. Mg. Pleasant, Mich

Boars at Half Price From Mich Proneer herd of Big Type Poland Chinas We have been breeding them big for 30 years. Our hogs represent the blood lines of Giant Buster. The Clansman, Liberator, The Yankee. Big Bob, etc. Write for what you want.

JNO. C. BUTLER. Portland, Mich

Big Type P. C. some very choice boars double im mune, out 1100 lb. sire and mammoth sows from Iowa's greatest herds. E. J. Mathewson, Burr Oak, Mich

BIG TYPE POLANDS

pring boars all sold, fall pigs either sex at farmers' prices. Tuscola Clansman is our young herd sire, let brize pig at Mich, State Fair Litter from him fill improve your herd. Fublic sale Feb. 1. Write oday for catalog. DORUS HOVEK. Akron. Mich

L.T.P.C. Gilts bred or open, two good boars left. They have always made good, and will again. Write for my plan of selling. M. M. PATRICK, Gd. Ledge, Mich.

Wainut Alley Big Type P. C. gilts now ready to ship they are bred to the best boar I have seen this fall. A. D. GREGORY, 183, Ionia Mich.

L. T. Poland Chinas spring boars and sonable prices, also fall pigs either sex of popular brood lines. Aberdeen-Angus bulls, Heiters and Cows that are show inners. Write or cone. E. A. CLARK. R 3. St. Louis Mich.

Profitable, Practical Poland Chinas, bred gilts.

Blood-lines Disher's Giant. Big Bob,

Yankee JAS G. TAYLOR. Belding. Mich.

Big Type Poland Chinas
G. A. BAUMGARDNER R. 2. Middleville, Mich
For Sale Choice Poland China fall boar pigs
by Emancipator 2nd, dam by Checkers
also can spare a few bred sows and gilts from herd,
WESLEY HILE, Ionia, ich.

Large Type Polaud China Gilts sired by Mich Liberator. & Big Checkers, Bred to model Giant and Mich. Liberator 2d. for March & April farrow. George F. Aldrich, R.6 Ionia. Mich.

Lone Maple Farm Big Type Poland Chinas.

F. R. DAVIS & SON. Belding, Mich.

Large Strain April farrow, You can the at the breeding nor price. H. O. SWARTZ. Schoolcraft, Mich.



Five

Owners in 1903-55,000 Today

Why this enormous increase? They top the market. Packers choice—Five Straight years grand champion car load of fat hogs at Chicago Fat Stock Show; amous Foragers—greatest gain on cheapest feed. Write to Michigan's Leading Hampshire Breeders. Armstrong and George Donald C. Espie James G. Arthur Lloyd Aseltine Grass Lake Lloyd Aseltine Okemos Clarence L. Campbell Johns Clarence L. Campbell Johns Clarence L. Campbell Johns St. Johns Clarence St. Johns St. Johns Clarence St. Johns John L. Landon Addison S. H. Van Marter and Sons Maniton Beach

Hampshires spring boars and bred gi'ts from order now or you may be too late. 10th year. JOHN W. SNYDER, R. 4. St. Johns. Mich.

Hampshir Bred gilts \$20, \$25; bred sows \$30, Guarantee safe delivery, registered free.

Bred gilts \$20, \$25; bred sows \$30, Guarantee safe delivery, registered free.

Registered Hampshires, Bred sows and gilts, fall spection invited. Clarence L. Campbell. Parma, Mich

SHEEP

800 BRED EWES FOR SALE

in lots of 50 or more black faced from 1 to 4 yrs old; no broken mouths, in good condition, bred to Shropshire and Oxford rams to lamb May first. Located 22 m lee S. W. of Detroit on Detroit and Toledo electric and Dixié Highway. Telegraph address, Rockwood, Almond B. Chapman. Sc. Rockwood, Mich.

Large, We'l Covered, registered Shrop-to rams of merit in lots to suit. Flock established C. LEMEN & SONS. Dexter, Mich.

Delaine ewes and ewe lambs for sale.
CALHOON BROS. Bronson, Mich

FOR SALE 35 Head of Registered Hamp-fore March 1st. Your opportunity. HULL BROS., 401 American State Savings Bank, Lansing, Mich.

HORSES

FOR SALE Black Percheron Stallion, Lott June 10, 1917. Wt. Reg. No. 142323. Foaled dam imported. Wm. Bird; St. Johns, Mich.

For Sale First Class Percheron Stallions Draft colts: Chas Bray, Okimos, Mich.

RY a Michigan Farmer Classified Liner-They cost little and bring big results.

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Will relieve Coughs and Colds among horses and mules with most satisfactory results. For 30 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.

The undersigned will sell on the premises
3-4 mile north of Corunna

Wed. March 7

Commencing at 10:30 o'clock. Lunch at Noon. Free Auto will meet Trains and Interurban Cars. Twelve registered Shorthorn females, mostly with calf by side.

One Bull, 18 months old.

Also Fifty fine wool breeding ewes, 1 to 5 yrs. old, A few tools.

This is a rare chance to get into the good Shorthorn herd. All are tuberculin tested.

TERMS—Nine months time on good approved bankable notes at The cent interest.

C M BILHIMER, Preprietor ANDY ADAMS, Litchfield, and NORM-MORRISH, Flushing, Auctioneest.



GRAIN QUOTATIONS

Tuesday, February 13.

Wheat.

Corn.

Detroit.—Cash No. 2, 81 1/2c; No. 3 Chicago.—No. 2 mixed 74½@74%c; No. 2 yellow 74½@75%c.

No. 3, 49½c. Chicago.—No. 2 white at 46@48c; No. 3 white 44¾ @45½c.

Beans.

Detroit.—Immediate and prompt

shipment \$7.75.
Chicago.—Choice hand-picked Michgan beans \$8.40@8.50; red kidneys at

New York.—Choice pea \$8.35@8.50; red kidneys \$8.25@8.50.

Rye.

Detroit.—Cash No. 2, 91c. Chicago.—88% @89c. Toledo.—Cash 91c.

Seeds.

Detroit,-Prime red clover cash at

\$13.40; April \$12.40; alsike at \$10.40; timothy \$3.30.

Toledo.—Prime red clover cash at \$13.65; alsike at \$10.50; timothy cash, new \$3.35; old \$3.40.

Hay.

Detroit.—No. 1 timothy \$16@16.50; standard \$15.50@16; light mixed at \$15.50@16; No. 2 timothy at \$14@15; No. 1 clover \$13@14; rye straw \$11.50@12; wheat and oat straw \$11@11.50 per ton in carlots.

Feeds.

Bran \$35.50; standard middlings at production and its reflection in mar-\$35.50; fine do \$36@37; cracked corn \$36.50; coarse cornmeal \$33.50@34; chop \$30@30.50 per ton in 100-pound sacks.

Fruit.

Apples.—Jonathans \$4.50 per bbl; Kings at \$5; Northern Spies \$4@6; Greenings \$5@5.25; Wageners \$4.50.

WHEAT

Wheat prices advanced last week to the highest point since the first of the year. Threats of war in the Near East, coupled with continued evidence of support on declines credited to eastern speculators were among the influences which lifted the market out of the rut. The market is not in an entirely healthy state as the United States still has a surplus of 80,000,000 bushels to be disposed of before July 1, assuming that domestic consumption equals the average of the last five years and that no more than a normal quantity is carried over into the new quantity is carried over into the new crop year. Financial conditions abroad and generous surpluses elsewhere make the disposal of our surplus at good prices a difficult matter but nothing has happened yet to indicate that exports from this country will fall off completely. The fact that wheat prices are below the general level of other commodities is of some significance.

week, especially on the forward deliveries. Receipts have declined and are now running below the average for this tim of year, although the advance has started country selling again. Industries and feeders are using large quanup \$7.70@8.30; tops \$8.45; Heavy 250 lbs tries and the advance in Argentine \$7.95@8.30; light 150 to 200 lbs \$8.25 corn makes our corn cheaper to importers. The domestic demand alone \$8.40; heavy packing sows 250 lbs up seems sufficient to take care of the \$6.90@7.30; packing sows 200 lbs up supply but damage to the new Argen-\$6.60@7; pigs 130 lbs down \$7.50@8.

Estimated receipts today are 22,000; holdover 16,507. Market 10c higher than Tuesday's close. Bulk of sales than Tuesday's

Detroit.—No. 2 red \$1.41; No. 2 mixed \$1.39; No. 2 white \$1.41.

Chicago.—No. 2 hard \$1.25@1.25\(\frac{1}{4}\); Toledo.—Cash \$1.41\(\text{@1.42}\).

Clover seed prices gained slightly control.—Cash No. 2 mixed 74½@74¾c; last week as the demand broadened on the recent decline. Quotations are about \$1 lower than a year ago, while timothy seed is a shade higher. Spring demand usually is strongest in March.

FEEDS

Wheat feeds have turned firm again as cold weather has improved the demand, feed consumption generally is heavy, and flour mills are operating at a lower rate than two months ago. Cottonseed meal and linseed meal, however, are weak, with the demand unimproved even at lower prices. Export buying of cottonseed cake has declined. Gluten and hominy feeds are practically unchanged with offerings slightly in excess of the demand.

Most hay markets are dull with the holders anxious to realize. Receipts of low grades continue heavy while strictly choice hay is rather scarce. The weather change has not increased the demand appreciably.

POULTRY AND EGGS

Snow and cold weather checked the decline in the egg market and brought a small upturn in values. Market receipts are increasing steadily although they may subside in the next ten days as a result of the recent turn in the weather. There is usually a lag of a couple of weeks between a change in

tine crop is not being repaired so that the export situation looks favorable.

OATS

Oats prices are low when compared with corn. Stocks at terminals are large but not burdensome and are decreasing gradually in spite of primary receipts above normal for this time of year.

SEEDS

SEEDS

ket receipts. But bad weather will not greatly delay the spring increase in the lay and lower prices are probable. In the Chicago market eggs for late February delivery are quoted at about five cents below present prices and for April delivery about three cents lower still, indicating the concensus of opinion as to the trend of values. Poultry prices have advanced substantially in the last six weeks. As the receipts are declining, further advances are logical.

the receipts are declining, further advances are logical.

Chicago.—Eggs, miscellaneous 30@ 30½c; dirties at 25@27c; checks 24@ 26c; fresh firsts at 30@30½c; ordinary firsts 29@29½c. Live poultry, hens 25c; springers at 23c; roosters 15c; ducks 23c; geese 16c; turkeys 25c.

Detroit.—Eggs, fresh candled and graded at 32½@33c; storage 25@26c. Live poultry, springers at 26c; light springers 22c; heavy hens 26@28c; light hens 24c; roosters 15c; geese at 18c; ducks 26@27c; turkeys 25c.

BUTTER

The butter market turned right about face last week and recovered most of the loss of the previous week. Severe weather was an important factor by cutting down shipments and stimulating the demand. Receipts at the four principal markets declined and production reports from creameries show a slight falling off during the tes show a slight falling off during the two previous weeks, with a probability of a further loss during the week under review. The upturn seemed to have spent its strength on the close, however, as buyers were going slow on the advance and some foreign butter which had been withheld to avoid

loss was being offered for sale.

Prices on 92-score fresh butter were as follows: Chicago 48½c; New York 49c. Fresh creamery in tubs sell in Detroit for 47@48c.

POTATOES

Marketable stocks of white potatoes

in the United States on January 1, 1923, in the thirty-five late potato states were 125,290,000 bushels. Holdings were 39 per cent more than last year and 16 per cent more than two years ago. In view of the heavy shipments made in the first five months of 1922, the prospect for disposal of the large holdings this year is not especially encouraging. Northern sacked round whites were quoted at 90cm \$1.10 per 100 pounds in the consuming markets, and 55@60c f. o. b. shipping points. points. BEANS

BEANS

After sagging until the middle of the week the bean market turned strong and advanced to \$7.75 per 100 pounds for choice hand-picked whites f. o. b. Michigan shippinng points. The wholesale grocers resumed buying after the lull recently, and speculative interests seeing the change of trend began to buy also with a prospect that the \$8 quotation will be restored before the market loses its momentum. Light red kidney beans are quoted at \$8.15 while dark red beans which are extremely scarce are quoted at \$8.50 or even higher. Stocks of the latter in Michigan are believed to be but little more than are needed for seed.

WOOL

Seaboard wool markets were more quiet last week, but prices were decidedly firm. Buyers are responding to offerings of woolen goods in spite of higher prices than a year ago so that confidence is general. Foreign markets also have quieted down because of restricted buying by the United Kingdom and the continent and prices have been irregularly higher and lower. Contracting is starting slowly in the west with as high as forty-six cents paid for some half-blood

forty-six cents paid for some half-blood and three-eighths clips.

The Boston wool market is quoted as follows: Michigan and New York fleeces, delaine unwashed 55c; fine unwashed 48@50c; half-blood unwashed 53@54e; three-eighth blood unwashed 54@55c; quarter-blood unwashed 52@53c.

DETROIT CITY MARKET

The market has been a quiet one all week. Fruits and vegetables continue active with little change in prices. Eggs are increasing in quantity and the market isn't showing a great deal of strength. Apples sell for \$1@2.50; cabbage 90c@\$1 per bu; potatoes \$1.50@1.65 per 150 lbs; onions \$3@3.50 per 150-lb. sack; carrots \$1@1.25 per bu; poultry 22@26c lb; eggs 32@32½c; hogs 5@12c per bl; veal 15@18c.

COMING LIVE STOCK SALES.

Aberdeen-Angus.

March 21.—Russell Bros., Merrill. March 8.—Alexander & Bodimer, Vassar.

Holsteins.

Feb. 27—Muscott & Graham, Ithaca. Feb. 23—E. O. Phelps, Tekonsha. March 6.—H. W. Evans and D. W. Fisher, Eau Claire. March 10—Musolff Bros., South Lyon.

Shorthorns.
March 7-C. M. Bilhimer, Corunna.

Duroc Jerseys.

Feb. 21.—Clyde Godfrey, Jonesville. Feb. 22.—Gratiot County Duroc Breeders, Ithaca. Feb. 27—Matt Matthysse, Byron Cen-

O. I. C.'s and Chester Whites. Feb. 27—Emery H. Jewett, Mason. March 8—Alexander & Bodimer, Vassar.

Poland Chinas

Feb. 17.—Witt Bros., Adrian, Feb. 21.—C. O. Goodrich, Plymouth,

Feb. 21.—C. O. Goodrich, Flymouin, Indiana.
Feb. 21.—N. Fay Borner, Parma.
Feb. 22.—A. A. Feldkamp, Manchester.
Feb. 24.—G. S. Coffman, Coldwater,
Mich. (Postponed from Feb. 14).
Feb. 27.—J. E. Mygants, St. Johns.
Feb. 28.—Chas. Wetzel & Sons, Ithaca.
March 1.—Archie Ward, Breckenridge.
March 22.—Sonley Bros., St. Louis.

Spotted Poland Chinas.

March 2.—C. Watson, Breckenridge.

Shropshires. Feb. 21.—Clyde Godfrey, Jonesville.

Live Stock Market Service

Wednesday, February 14.

DETROIT

Receipts 399. Market slo	ow and	25c
lower; thirty-five cars on	Pere	Mar-
quette did not get in in tim	e to se	ell.
Best steers	8.250	08.50
Handyweight butchers	7.50@	8.00
Mixed steers and heifers	6.50@	7.50
Handy light butchers	6.00@	6.50
Light butchers	5.25@	5.75
Best cows	5.00@	
Butcher cows	4.25@	
Common cows	3.00@	
Canners	2.25@	
Choice bulls	5.00@	5.25
Bologna bulls	4.00@	
Stock bulls	3.50@	4.00
Feeders	6.25@	
Stockers	4.50@	
Milkers and springers\$	40@	80.00
Vari Calina		

Sheep and Lambs.

Receipts 523. Market steady, qual-

Cattle.

Estimated receipts today are 8,000. Killing classes are strong to 25c higher; stockers slow. Beef steers medium and heavy weight 1100 lbs up at \$10.25@11.60; do medium and good at \$8.25@10.25; do common \$6.95@8.25; light weight 1100 lbs down at \$9.25@11.25; do common and medium \$5.90@9.25; butcher cattle. light weight 1100 lbs down at \$9.25@ 11.25; do common and medium \$5.90@9.25; butcher cattle heifers at \$5@9.75; cows \$4.95@7.75; bulls bologna and beef \$4.40@6.65; canners and cutters cows and heifers \$3@4.15; do canner steers at \$3.50@4.50; veal calves light and handyweight \$9@13.50; feeders steers \$5.50@8

Cattle.

Receipts 523. Market steady, quality very common.
Best lambs \$14.00@14.50
rye have been exported thus far and around 8,000,000 bushels more are reported to have been sold abroad. The crop was 95,000,000 bushels, of which domestic consumption will account for from 35,000,000 to 40,000,000 bushels, teaving 25,000,000 to 40,000,000 bushels, teaving 25,000,000 to 40,000,000 bushels, to be cleared in the next four and one half months. Germany reports buying 2,400,000 bushels of rye from Russia recently.

CORN

Corn prices reached new levels last week, especially on the forward deliveries. Receipts have declined and are now running below the average for this tim of year, although the advance has than Tuesday's close. Bulk of sales

Hogs.

Receipts 40 cars. Market is lower.

Medium and heavy \$8@8.25; yorkers
and pigs \$8.75.

TON LITTER CONTEST.

HE Hoosier Ton Litter Club, spon sored by Purdue University, is the greatest piece of advertising that has been done for the pure-bred hog. This contest was to see how many breeders could produce a ton of pork from one litter at six months of age. It was open to all breeds. Five hundred fiftyfive litters were entered, and thirtyfive made the mark. G. R. Swartz, of Burne, Indiana, raised the champion litter on skim-milk, corn and clover pasture. Three things contributed to his success: Good seed stock, good feed and good management. Conclusive proof has been given that the feed used to produce a 170-pound scrub will grow a 240-pound pure-bred.

BUFFALO MARKET NEWS.

THE Live Stock Exchange Cooperative Commission House at Buffalo is doing big business. The house opened for business on November 1. The third week of operation it handled 209 of the 802 loads sent to seventeen houses located at that point.

KEEP THE MEMBERS TIED UP TO LOCAL ORGANIZATION.

I N our talk about building strong farm organizations we have said and repeated hundreds of times, the value and necessity of good leadership. I believe that we need to add to this the gospel of good membership.

Experience shows that we must keep the members closely tied to the local organization, to do permanent service to the members and to the community. Strong leaders can carry the load for a time, but the day comes when they can no longer do this. Then if the membership has not been trained to lift, the organization is in a bad way. In our effort to build healthy, strong and serviceable farm organizations we should see to it that the closest business and sociable relations exists between the members of the local assocration.-P. G. Sley.

Michigan Allied Dairy Convention

Kalamazoo, Feb. 20-21-22-23, 1923



KEEP BEES

The Melotte Separator, H. B. Babson, U.S. Mgr. Dept: 9102 2843 W. 19th Street, Chicago, Ill.

M. H. HUNT & SON, Lansing, Mich.

OFFICERS ELECTED BY FARM ASSOCIATIONS.

M ANY farm associations held elec-tions at Farmers' Week. We have received reports of the following officers being elected:

ing officers being elected:

Michigan Guernsey Breeders' Association:

President, Fred C. Holbeck, of Long Lake; vice-president, John Endicott, Detroit; secretary-treasurer, C. Faye Myers, Grand Blanc; executive committee, H. W. Wigman, of Lansing; George Hicks, Saginaw; R. A. Holmes, Grand Rapids; H. W. Whittier, W. W. Burdick, F. H. Ormston.

Michigan Sheep Breeders' Association.

President, J. N. McBride, Burton; secretary, Don Williams, East Lansing, Michigan Swine Breeders' Association.

President, Newton J. Barnhart, St.

President, Newton J. Barnhart, St. Johns; secretary-treasurer, F. E. Haynes, Ionia.

Haynes, Ionia.

Michigan Jersey Cattle Club.

President, H. F. Probert, Jackson; vice-president, O. B. Graham, Mendon; secretary-treasurer, Alfred Hendricson, Hart; executive committee, A. Baldwin, Capac; J. B. Maher, Alma.

Michigan Holstein-Friesian Association.

President, E. E. Smith, of Adrian; vice-president, W. R. Harper, Middle-ville; directors, Neil Lamoreaux, Comstock Park; C. W. Post, Hillsdale; H. W. Norton, Lansing; Silas Munsell, Howell; George Spillane, Flint; M. W. Wentworth, Battle Creek; R. F. Sloan, Charlevoix. Charlevoix.

Charlevoix.
Michigan Shorthorn Breeders' Association.

President, S. H. Pangborn, of Bad Axe; vice-president, M. E. Miller, of Greenville; secretary-treasurer, W. E. J. Edwards, East Lansing; directors, Frank Lessiter, Clarkston; Fred Hebblewhite, Armada; Jay Smith, Ann Arbor; Thomas Martin, of Ionia; H. W. Hays. Chelsea. Hays, Chelsea

Michigan Muck Farmers' Association.
President, A. H. Sherman, Homer;
vice-president, H. I. Sippy, of Walkerville; secretary-treasurer, Dr. Paul
Harmer, East Lansing.

Michigan Honey Producers' Exchange.
President, E. D. Townsend, North
Star; vice-president, B. F. Kindig, of
of East Lansing; secretary-treasurer,
Floyd Markham, Ypsilanti; directors,
David Running, Filion; R. H. Kelty,
East Lansing East Lansing.

Michigan Beekeepers' Association.
President, E. B. Terrell, of Detroit; vice-president, Ira D. Bartlett, of East Jordan; secretary-treasurer, Russel H. Kelty, East Lansing; executive committee, Colin P. Campbell, A. G. Woodman

man.
Michigan Potato Producers' Association.

President, Thomas Buell, of Elmira; vice-president, R. C. Bennett, of Alba; secretary-treasurer, H. C. Moore, East Lansing; directors, Thomas Buell, of Elmira; J. D. Robinson, Levering; E. S. Brewer, Millersburg; Fred Brudy, Wolverine; R. C. Bennett, Alba.

Michigan Duroc-Jersey Breeders'
Association.

Michigan Duroc-Jersey Breeders'
Association.
President, O. F. Foster, of Pavilion;
secretary-treasurer, F. J. Schaffer, of
Detroit; directors, V. A. Freeman, of
East Lansing; Carl Story, Lowell; N.
Barnhart, St. Johns.
Michigan Hereford Breeder's Associa-

tion.
President, Frank H. Sanders;
Michigan Poland China Breeders'

Association.

President, W. E. Livingston, Parma;
vice-president, A. A. Feldkamp, Manchester; secretary-treasurer, W. I.

Wood, Birmingham.

Michigan Red-Polled Cattle Club.

President, N. C. Herbison, Birmingham; vice-president, R. L. Finch, of ham; vice-president, R. L. Finch, of ham; vice-president, reasurer, Mark E. Saline; secretary-treasurer, Mark E. Westbrook, Ionia; director, (for three years), Frank A. Randall, Armada;; (for two years), John E. Killick, of

APPLES

Barreled apple prices weakened in York Bald. wins were quoted at \$4.50@5 in consuming cities. Shipments of barreled and boxed stock combined were considerably above the average for this time of year.

The demand for horses has expanded recently but the receipts likewise have increased and prices are no better. Choice heavy drafters are quotable up to \$300 at Chicago, but \$175 to \$225 takes the bulk of the horses weighing above 1,600 pounds. Chunks weighing 1,350 to 1,550 pounds are bringing \$125 to \$175.

OHIO SHEEP BREEDER MAKES HIS OWN WORM DESTROYER

Geo. E. Helser, Breeder of Merino Sheep, Finds a Sure Way to Keep Sheep and Lambs Free From Worms and in Healthy Condition

"Like every breeder and farmer who keeps sheep, I have had no end of trouble and losses from stomach and intestinal worms. I learned that The Ivo-San Laboratory of Cleveland, Ohio, had been conducting some extensive investigations and tests in connection with stomach and intestinal worms in all livestock, particularly sheep and hogs.
"I wrote to them to find out what results

particularly sheep and hogs.

"I wrote to them to find out what results they had obtained and in reply they said they had discovered what seemed to be the most efficient and satisfactory remedy to destroy worms in livestock, that has yet been produced. Futhermore, their preparation was in concentrated form so farmers could mix their own remedy. They offered to send me a 15-lb. package of this new discovery, telling me how I could make my own worm destroyer and save over half of the usual cost of such preparations, and that if it did not do the work, the small charge they made for it would be refunded.

"I sent for a 15-lb. package of their Wormix.

"I sent for a 15-lb. package of their Wormix. It did the work. Later I ordered six packages

"If keep it before my lambs and sheep constantly—let them have free access to it and as a result I haven't a lamb or sheep that shows a trace or sign of stomach worms. I never had lambs do so well or look so rugged and thrifty. Wormix is a real worm destroyer and preventive too.

"If sheep owners would keep it before their POSTOFFICE.

Wormix, as Mr. Helser of Lafayette, Ohio, stated, R. F. D......STATE.....STATE.....

is a worm destroyer in concentrated form. You buy it at a small cost and mix it with ordinary salt. Thus you do not pay drug prices for salt or other fillers. You save over half the usual cost of such preparations and you get a worm destroyer far ahead of anything yet discovered. It also contains bons growing minerals, is a tonic and digestive and will prove the best thing you ever used on lambs, sheepings, horses and cattle for ridding them of wormskeeping them free from these costly pests—keeping all your stock in healthy, thrifty, growing condition. No trouble to feed; no starving, dosing or drenching. Animals take it readily and doctor themselves.

You take no risk—if Wormix does not prove satisfactory, your money will be refunded. Fill out coupon NOW.

> The Ivo-San Laboratory, 212 Prospect Ave., Cleveland, Offio.

Please find enclosed for packages



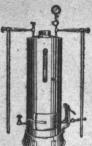


Use Alligator Steel Belt Lacing. Avoid costly delays Protects belt ends. Anyone can applyit. Permanent economical and used by farmers and implement manufacturers the world over. Strongest on earth.

Joint is smooth and flexible, will run over idlers and in any serviceiwhere the belt will run. Sold by dealers everywhere

Flexible Steel Lacing Co. 4612 Lexington Street, Chicago, Ill. In England at 135 Finsbury Pavement, London, E.C.2

Farm and Dairy Boilers \$55.00



Storage and Stock Tanks

Gasoline and Oil Storage Tanks

Wagon Tanks Mint Tubs WRITE FOR PRICES

Niles Steel Tank Co. NILES, MICHIGAN



BOND STEEL POST COMPANY 31 Maumee St. Adrian, Mici FOR SALE

16 H., 18 H., 20 H., 25 H. Nichols & Shepar Traction Engines, 16 H., 18 H., 22 H. Hr. H. and 20 H. Rumely, 18 H. and 20 H. F. H. Beeves, 18 H. Aultman & Taylor, 18 H. apolls, 35 in. Aultman & Taylor Thresher, and 32 H. J. I. Case, 28 in., 32 in. and Wood Bros. 36 in. Cape, 32 in. Minneapolis. with Belt Power, Press. Write for our compound and list. Buy hadd Machinery and save

THE BANTING MFG. CO 2979 Dorr St. TOLEDO, OHIO

PERMANENCE HOOSIER SILOS last for genera-tions. Proof against wind, fire, frost and decay. Reinforced every course of tile with galvanized steel cable. Continuous floors with double seal-ing clamps, setflush with inside wall allow even settling of ensilage. HOOSIER SILOS silos in wood-same aplendid value-backed up by ne splendid value--backed up by osier reputation. Special induce-nts for early shipments. Buy W--have your silo when you need Terrifory open for good live sales-n. Write today for free literature. HOOSIER SILO CO. Albany, Ind. Dept. M-99

--FISH--

Fancy new winter caught fish packed in new boxes 110 lbs, net weight, Pickerel, round 8c; Pickerel hdls, and dressed 10c; Yellow Pike 13c; Tullibee Whitefish 11c; No. 1 Whitefish 15c; Silver Herring 4c; smaller quantities ½c higher per lb.; box charge 30c, Write for complete price list Fresh, Salt, Smoked & Canned Fish,

Smoked & Canned Fish, Address Box 44 JOHNSON FISH CO., Green Bay, Wis,

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at World's Original and Greatest School. Become independent with no capital invested. Write today for free catalog. JONES NAT'L SCHOOL OF ACTIONEERING. 28 N. Sacramento Blvd., Chi-cago, Ill. CAREY M. JONES, Pres.

SEED OATS. BARLEY, WHEAT, POTATOES, New yarieties. Tremendous yielders. Best quality G. A. Read. Read's Exp. Farms, Charlotte, Vt.

Real Estate Market

FOR SALE 80 acre farm. 4 miles from rati-road, town of 3500 population. Best of soil. Good well house, barn, granary, young orchard, 12 acres fall wheat, 17 acres meadow, 10 acres fall plowing, balance pasture, all fenced. Wm. Greenfield, Onaway, Mich-igan.

MUST SELL to settle an estate 240 acre farm ance timber and pasture well fenced. Good house, basement barn, shop, granary, hog and poultry house, good water, some fruit. Close to school and market \$25.00 per acre for quick saie.

GEO, MUNN, Executor, Blanchard, Mich,

For Sale 40 acres land. New 3 Room House 10 acres, clear, near Houghton Lake, Price 1,000 Dollars. Address. Charles Borgeson Houghton Lake, Mich.

Free U. S. Land. 200,000 A. in Ark for homestead-ing. Send 85c for Guide Book and Map. FARM-HOME, Little Rock, Ark.

Want to hear from party having farm for sale Give particulars and lowest price. JOHN J. BLACK. Capper St., Chippewa, Falls. Wis

We Have Cash Buyers for farms at real bar fully Central Land Bureau, New Franklin, Mo.

Sell Your Farm by my quick and easy method. It brings cash burers. Send for particulars. Albert Shirley. 703 South Rose Street, Kalamazoo, Michigan

FOR SALE Many farm bargains, price and terms easy. Write for our new listings. Strang Real Estate Agency, Lakeriew, Mich. CASH YOUR PROPERTY QUICKLY, location immaterial. Give best price, Universal Sales Agency, Box 43, N. Topeka, Kans.

Farms Wanted sell your farm quick for cash New Nethod, small expense Weaver Sales Co., Congress Bldg., Dept. 6, Detroit

If You Want To Sell Your Farm
Write, JEROME PROBST, AnniArbor, Mich.

Listen 40 A. imp. farm \$1200. Good terms. Other

Farm Wanted Give description cash price. R. F.

50 Good Farms Write for feee list. DeCondres

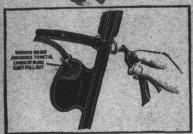


Made in All Styles Breechingless Side Backer Express etc

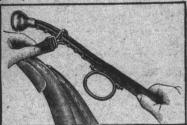
> It has been eight years since I invented the Walsh No-Buckle Harness. Today there are thousands of satisfied users in every users in every state in the Union

JAMES M. WALSH

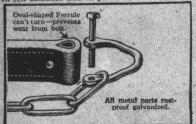
The



Handy This picture shows how easy it is to hitch and unhitch. All parts just as simple as this.



Easy Adjustments Walsh Harness can be adjusted from large team to in ten minutes and fit perfectly.



Durability Not a single place on Walsh Harness for metal to rub and wear leather.



Quality Only strongest part of hide is used. High-grade, bark-tanned, packers' Northern steer hide leather.



Strength From photograph of an actual test made for U.S. Army Officers. One of our regular Walsh side straps holding seven men in air, and the Walsh strap holder did not slip a fraction of an inch. The same strap with buckle in it broke with large men. Get Free Book for complete details.

I have used your harness two years and like it better than any I have used during the twenty years that I have used teams. I have no bother now with buckles or loops and there are no holes to weaken the straps. Also I save many minutes in harnessing and unharnessing by team, and the counts.—MATT PETERSON, Hulbert, Mich.

Strong, Handy, and Fits Well

I have given my Walsh a good test, and it doesn't show the least bit of wear or strain. It is strong, handy, and it doesn't show the least bit of wear or strain. It is strong, handy, and it doesn't show the least bit of wear or strain. It is strong, handy, and it doesn't show the least bit of wear or strain. It is strong, handy, and it doesn't show the least bit of wear or strain. It is strong, handy, and it doesn't show the least bit of wear or strain. It is strong, handy, and it doesn't show the least bit of wear or strain. It is strong, handy, and it doesn't show the least bit of wear or strain. It is strong, handy, and it doesn't show the least bit of wear or strain. It is strong, handy, and it doesn't show the least bit of wear or strain. It is strong, handy, and it doesn't show the least bit of any fill well.

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I have given my Walsh a good test, and it doesn't show the least bit of any it doesn't show the least bit of any fill wear or strain. It is strong, handy, and it doesn't show the least bit of any fill wear or strain. It is strong, handy and it doesn't show the least bit of any fill wear or strain. It is strong, handy and it doesn't show the least bit of wear or strain. It is strong, handy and it doesn't show the least bit of wear or strain. It is strong, handy and it doesn't show the least bit of any fill wear or strain. It is strong, h

Send no Money average cost of re-

Before You Buy Harness

Post yourself on this new way of making harness which has three times the strength of buckle harness. Let me send you a set of Walsh No-Buckle Harness on thirty days' free trial, just as thousands in every state in the Union have done. Let me show you how harness can be made three times stronger without buckles-how much better looking and how much handier in every way. Try a Walsh on your team 30 days. Send no Money. If it is not all that I claim, send it back at my expense. No obligation on your part. Write for the free book today. Costs Less-Lasts Twice as Long

This wide-open, liberal offer shows that the Walsh must be an exceptionally good harness. If I did not know positively that Walsh Harness is better in every way than buckle harness, I could not make such an offer. In addition to having harness in the hands of thousands of users the country over for years past, I have tested and proven in various ways that my harness is better and stronger, hence cheaper by far than any other harness. I prove conclusively in my new harness book, which I am waiting to send you, that Walsh No-Buckle Harness will positively last twice as long as buckle harness. Greatest Advance in Harness Making

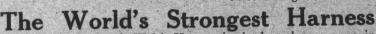
NO BUCKLES TO TEAR

My New Harness Book

is Ready Send for Your Copy Today-Post Yourself

NO RINGS TO WEAR

Not only is the Walsh No-Buckle Harness stronger, but it is easier to put on and take off. It is also better-looking, handier, and eliminates frequent repairs. Has better fitting hames, adjustable strap holder—the harder the pull, the tighter it holds—renewable spring snaps and many other advantages explained in my free book. The Walsh is easily adjusted to fit any horse perfectly. And remember that Walsh Harness actually costs less than buckle harness because it does away with repair expense, and lasts longer.



Users say the leather in Walsh Harness is the best they ever saw in harness. It is old-fashioned, bark-tanned, packers' Northern steer hide leather. A test made in a scientific laboratory proved that a Walsh 1½ inch breeching strap holds over 1100 pounds. The same strap with buckle in it breaks at about 350 pounds pull. When you consider that ordinary harness has 68 buckles, and Walsh Harness none, you'll understand why my harness does away with repairs and outwears two sets of buckle harness.

Friction Another Destroyer of Harness

Rings are another thing that makes harness wear out before it should. Examine your old harness and you'll find where rings have worn the straps at the ends. There are 270 places on an or-

What Users Say

Government Experiment Stations, Agricultural Colleges are among the thousands of users in every state who praise the Walsh Harness. Walsh Harness took First Prize at Wisconsin State Fair in 1921 and 1922.

Mr. G. G. Anderson, Aiken, Minn., bought his first Walsh Harness five years ago and bought three more sets since for his other teams. He says: "Walsh

has buckle harness beat a mile."

Mr. E. E. Ward, Seneca Falls, Wis., says: "Have used Harness over 40 years. The Walsh is the best yet."

Mr. J. W. Rogers, R. No. 4, Baldwinsville, N. Y., says: "Have used it skidding logs and that is giving it a hard test. I think enough of it that I will order another set in the Spring."

\$5.00 After 30 Days' Free Trial

Balance easy payments or pay cash after trial if you wish. Selling direct from the
factory to you enables me to give the highest quality of harness possible to make at
lowest prices. You can get a Walsh Harness in any style—Breechingless, Back-Pad,
Express, etc. Easily adjusted to fit any horse perfectly.

Write Today. My free harness book wonderfully interesting facts and valuable information on harness—tells all about the Walsh No-Buckle Harness—what hundreds

JAMES M. WALSH, President WALSH HARNESS COMPANY
128 Keefe Avenue, MILWAUKEE, WIS.

Write for Your Copy Today

See How Buckles Weaken and Tear Straps BUCKLES
weaken the
straps and
cause your
harness to
break long before it has served
its time. Walsh
Harness has no
buckles. RINGS wear the straps in two at the edges by fric-tion. Walsh Har-ness has no rings BOOK With 100

Most Convenient Harness Ever Used

I purchased a harness from you, and have had it in continual use in all kinds of work and the harness shows no defect. It is the most convenient harness I have ever used. It is all that is claimed for it.—PAUL E. HUNT, Tower, Mich.