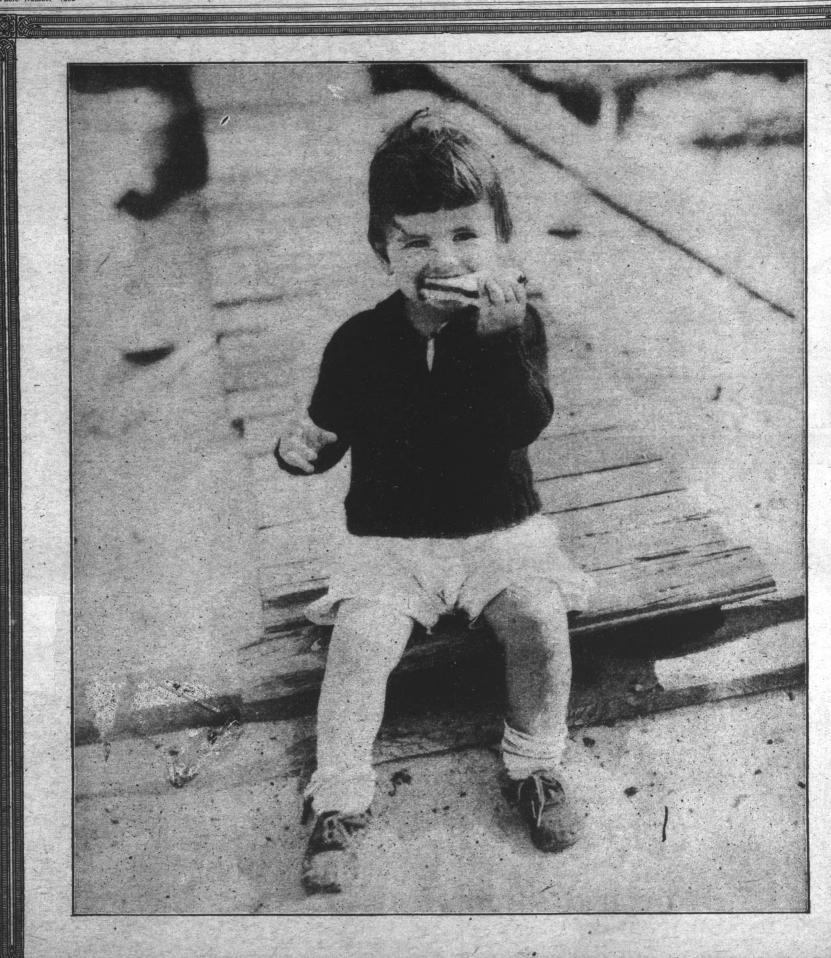


VOL. CLXI. No. 3 Whole Number 4262 DETROIT, MICH., SATURDAY, JULY 21, 1923

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Mail the Coupon today for Your

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Sleep-Meter

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Pocket Ben \$1.50

RY a Michigan Farmer Classified Liner-They cost little and bring big results.

for every risk the Farmer takes-there is a Hartford Policy





WILL ADVERTISE BEANS.

the Michigan Association appear to be state. willing to cooperate in a national movement just as soon as sixty per FORM POTATO GROWERS' ASSOCIcent of the elevators in the other large producing states agree to the plan. To finance such a campaign the proposal is to assess each elevator at 15, 1924.

MILK STRIKE CONTINUES.

ferred with representatives of the contract was considered. General agree- igan's potato crop. ment was arrived at on all details excepting the clause requiring the condensary to purchase milk only of the Producers' Association. As a result the situation is still tense and the producers are planning to make a new drive to increase their membership.

ED IN TRAVERSE COUNTY.

E IGHT poultry demonstration farms have been established in Grand C. E. Atwater. This work will be under the general supervision of M. A. C. poultry experts.

Each of the eight farmers on whose farms the demonstrations will be held is raising a certain breed of poultry. ganizations the information gathered 1923 are 382,000,000 bushels. by these demonstrations will be furnished to the neighbors. In all probfarms established throughout Mich-

EXPECT ACTION ON FREIGHT RATES IN MICHIGAN.

CHANGE in the rates for farm system of charging for freight in this gone into the bean growing business. state is expected by members of the Each of these boys is growing at least Michigan Public Utilities Commission. This matter was presented by the In some instances the beans are being Michigan Traffic League and various raised in competition with other variefarm organizations to the Interstate ties. The banks of the county are Commerce Commission nearly a year taking an active interest in the boys' ago. It is expected that an order from the Interstate body will be forthcom- ner to the International Live Stock ing at an early date.

SUGAR BEET MEN FEAR COMPE-TITION.

ed at the hearing. According to mem- tained with this stock. bers of the commission this is an effort to raise sugar beet rates to where

in reality an effort to kill the sugar beet business in Ohio and Michigan. T is reported that the Michigan The sugar beet tonnage brings to the Bean Jobbers' Association is favor- railroads of Michigan an income of able to a national advertising cam- five and one-half million dollars a paign looking toward a larger con- year. It is the principal source of revsumption of beans. The members of enue for some of the lines in this

ATIONS.

P OTATO growers in Montcalm county in the state, are organizing lothe rate of nine-tenths of one per cent cal shipping associations at the varifor each 100 pounds of beans received ous shipping points. There are eightbetween August 15, 1923, and August een such places in the county. Already ten of these have such associations, each affiliated with the Michigan Potato Growers' Exchange.

The new branch office at Edmore HE milk strike which has been on will not only serve the growers in in Allegan county for some time is Montcalm county, but will also be the not yet settled. On July 9 officers of center for distributing tubers grown the Milk Producers' Association con- in Mecosta county. It is believed that this branch office will serve a real ecodensary, at which time a proposed con- nomic end in the marketing of Mich-

FOR THE BUSY FARMER.

WILLIAM DALEY, of Riverside, declares that growing dewberries between young apple trees has proven most profitable for him. While the vines have to be protected during the POULTRY BUSINESS TO BE PUSH- winter, he states that the average production is around one hundred crates

The Grand Traverse Farm Bureau, Traverse county by Agricultural Agent at their recent annual meeting, reelected Ernest Lautner, president; E. A. Nickerson, vice-president, and E. T. Knight, secretary.

Federal crop estimators have put it down as their guess that this year's Careful records will be kept and the American potato crop will be sixtybest methods of caring for the flocks nine million bushels less than the one will be used. Through the county or- harvested in 1922. The figures for

During the month of June, the ability additional demonstration farms Michigan Potato Growers' Exchange will be established. There will prob- set a new record for June shipably be two hundred or more such ment of potatoes by sending out a total of 392 cars. The late season, and the smallness of the southern crop, are partly responsible for this heavy June shipment. During the same period in 1922 only 148 cars were moved.

A products and also in the zoning high schools in Eaton county have Twenty-six boys from the various an acre of beans, using Robust seed. work and are offering to send the win-Hay and Grain Show at Chicago this

An investigation by D. L. Hagerman, industrial agent of the Pennsylvania H EARINGS are on in Toledo this Railroad Lines, indicates that there is week before representatives of a large potential market for Michigan the Interstate Commerce Commission certified seed potatoes on Long Island. on petition of the cane refinery at These growers use approximately 500;-Blissfield, Michigan, for increased 060 bushels of northern seed annually. freight rates on sugar beets in Michi- One car of Michigan seed is being gan and Ohio. The Michigan Public used there this year. The future will Utilities Commission will be represent- probably depend upon the results ob-

The creamery company at Decatur they were about two years ago. Since is furnishing funds for financing a the Blissfield company is a cane sugar pure blood Jersey calf club among the plant, it is the claim of sugar beet boys of that locality. Each boy is progrowers that the effort to raise the vided with sufficient capital to purtariff rates on shipping sugar beets is chase a Jersey calf to start the project.

DEVOTED TO MICHIGAN

VOLUME CLXI

A Practical Journal for the Rural Family

MICHIGAN SECTION THE CAPPER FARM PRESS

QUALITY RELIABILITY SERVICE

NUMBER THREE

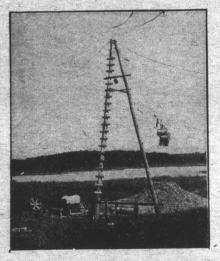
Digs Marl Successfully at Little Cost

This Equipment Requires Less Power Than Do Most Other Devices

By Frank O. Chenery

INCE lime has become such an important factor in manuring for crops, and it has been discovered that in the majority of the small inland lakes there lies enormous quantities of it in the form of marl, the digging of this type of fertilizer has be-

come a problem which many farmers have attempted to solve. After investigating various contrivances for the digging of marl, I came



The Tower and Scoop Just After Has Dropped its Load of Marl. The Pile you See Here was Dug in Less than Two Days.

to the conclusion that the greatest force to be overcome was the tremendous suction which occurs when the scoop is once imbedded in the marl at the bottom of the lake.

Successful marl digging in an inexpensive manner, something farmers on a steel cable, one end anchored in operate with little power and would three heavy poles. The track cable is do away with the excessive power raised and lowered for proper adjust-

depositing it on high and dry land the shaft. where it can be easily reached with either wagon or truck. And further- chine from the seat of his tractor, us- into the lake for a load. Two commore, I am doing it with such little power and cost that any farmer who has a lake accessible and is in need of marl or lime for his land can well afford to make a like investment.

Many people have come from far and near to witness this machine in operation, and their chief question is: How did Mr. Phelan develop a scoop which could be dropped into the bottom of a lake, loaded with marl and be removed without a tremendous strain upon equipment and the need of a vast amount of power to overcome suction?

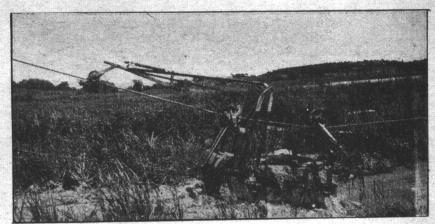
He did it by building a scoop which could be pulled out of the marl the same way it went in for its load without dumping itself in the operation.

All other scoops I have seen had to be lifted in a perpendicular manner after they had been loaded, which forced a terrible strain on the track cable carrying the scoop, and required a forty-horsepower engine working to full capacity, attached to a six-ply tackle and operating on a low ratio drum to lift the load from the bottom of the lake. In working with this scoop, I find such little strain on every portion of my equipment and power that digging marl is a simple and easy operation.

The scoop is carried back and forth could afford to buy and operate, cen- the lake, and the other carried to a tered itself in the development of a height of about thirty-five feet through proper scoop; something which would the aid of a tri-pod tower made from

than one hundred yards of marl a day, a drive shaft working on two universal taking it from the lake's bottom and joints operating one at each end of ed. It takes from two to six minutes

As the scoop travels along the track cable toward the tower, it is lifted higher into the air, where it finally reaches an automatic trip and is dumpto make a round trip of the scoop, de-This enables one to operate his ma- pending upon the distance one travels



Just Coming Out with a Load of Marl. Notice the Tripping Arm is Extended when the Scoop is Closed.

ing the gear shift to run the scoop in either direction on the track cable.

tension on the draw cable, in what- yards of marl is a good day's work. ever direction it may be, forces the scoop to operate automatically. The scoop opens at either end. When it enters the water it is in a dumping position. As it settles on the bottom of the lake it automatically closes. As it drags along the bottom the tension on the cable pulling it in forces the front gate open and the scoop is allowed to fill.

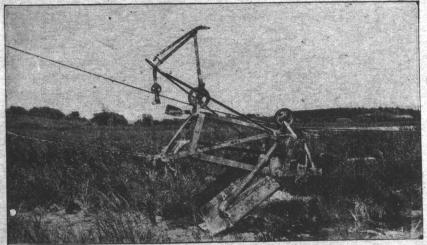
The endless cable runs slightly slack so that when the cable pulling the scoop from the marl tightens the other one is loose. This removes the tension holding the front gate open, and allows the tension pulling the scoop out to close this front gate automatically before it begins to actually remove the scoop from the marl bed. path which it entered. Everything has the windlass on the track cable, and tirely eliminated.

plete trips of the scoop digs one yard of marl, as the scoop has a capacity The scoop is so designed that the of one-half of a yard. One hundred

As to the actual cost of building such a machine, I am not ready to say. I had my own tractor, I built my own equipment. About the only thing I purchased was some second-hand elevator cable, some bolts and a few bearings.

Mr. Phelan has aided me considerable in the development of my rigging. The scoop is entirely to his credit, and from the experience I have had with it, and from what I have seen of other attempts at marl scoops, I believe I have the most successful and economical device for the farmer's use today.

It is certain to pay for itself in a short time for what it will do for my farm, and I believe in it so heartily The scoop is drawn out over the same that I can safely say, there is no need of anyone becoming discouraged over been cut away. There is no lifting the the digging of marl. It can be cheaply scoop from the bed through the use of and successfully done with this type of scoop and rigging. The rigging is that suction which has been the bane open to the inspection of anyone, and of every marl digger's existence is en- you can build it yourself. You, of course, will have to buy your scoop.



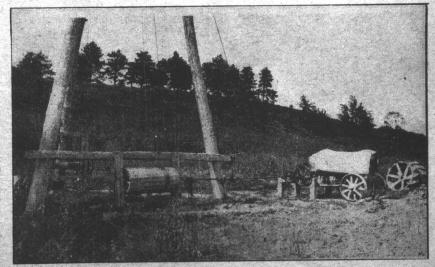
The Scoop tles on the Bottom of the Lake it Automatically Closes.

lake's bed when it was finally loaded. a hand-windlass which sets the scoop.

Mr. William Phelan, a farmer in Kalfor successful marl digging.

needed to remove the scoop from the ment for digging through the aid of

The scoop is forced back and forth amazoo county, developed a marl on the track cable by an endless cascoop during the past winter, and for ble, its two ends being fastened at which I built the necessary rigging to either end of the scoop. The cable operate. I felt certain that at last operates on a drum geared to a tracsomeone had developed a machine tor. The rear axle of the tractor is which would meet the requirements placed on a frame, the drive wheels removed, and two large bull gears are alized, and today I am digging better ed to the drum, being connected with



My expectations have been fully re- placed in their stead. These are gear- At the Foot of Tri-pod Tower Showing How the Tractor is Geared to the Drum which Operates the Endless Chain.

WICHIGAN SECTION THE CAPPER FARM PRESS

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

Detroit, Michigan 1632 LaFayette Boulevard Telephone Cherry 8384 NEW YORK OFFICE 120 W. 42nd St. CHICAGO OFFICE 608 So. Dearborn St. CLEVELAND OFFICE 1011-1013 Oregon Ave., N. E. PHILADELPHIA OFFICE 261-263 South Third St.

R. WATERBURY
RT WIERMUTH
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.....Field Editor I. R. WATERBURYBusiness Manager e Year, 52 issues ree Years, 156 issues re Years, 260 issues TERMS OF SUBSCRIPTION Five Years, 260 issues\$3.00
All Sent Postpaid
Canadian subscription 50c a year extra for postage

RATES OF ADVERTISING

per line agate type measurement, or \$7.70 per agate lines per irch) per insertion. No adver-inserted for less than \$1.65 each insertion. No ectionable advertisements inserted at any time, tered as Second Class Matter at the Post Office at troit, Michigan. Under the Act of March 3, 1879.

Member Audit Bureau of Circulation

VOLUME CLXI

NUMBER THREE

DETROIT, JULY 21, 1923

CURRENT COMMENT

When the young man or woman finishes college with the inquisitive mood still working, one may be quite certain that the years of student toil have not been spent in vain.

If any good thing can come of the spoiled-egg politics being played with the extension program and finances of the Agricultural College, we cannot force our imagination to figure it out.

This Wayne county farmer undoubtedly has friends. He says, "Although the tuberculosis work has cost me fully fifteen hundred dollars in cold money. I am fully in accord with the work and am lending my moral support to it."

Marketing the Wheat Crop

WITH the winter grain harvest practically completed and the threshing season at hand, the wheat market is of vital in-

terest to farmers throughout the country. The recent rapid decline in the market to a point below the cost of production of this staple foodstuff makes the problem more serious, and one which should engage the careful thought of every wheat grower.

The first essential in a proper study of the wheat marketing situation is a working knowledge of the existing facts regarding production and demand. The July forecast of the country's wheat crop, which will be found on Page 23, of this issue, indicates that our 1923 wheat crop will be some 41,000,000 bushels smaller than last year's crop, and 14,000,000 bushels less than the five-year average. Domestic consumption should increase at least in proportion to the increase in population, and there is a possibility of a considerable increase in this factor through the influence of the "Eat More Wheat" campaign now under man of the house himself. It is due way. But there is a very considerable his consideration for the housewife's crop will again exceed demands for of living while the farmer was getting domestic consumption, in anticipation other lines of farming on the paying perishable product it has been. In the of which the speculative price of fu- basis. tures has declined, carrying with it the price for spot wheat.

is the orderly marketing of the crop farm produces about \$15,000,000 more. and the storing of the surplus under So the Michigan hen is giving us more the amount of ice cream than growers' control. Plans for the pool- around \$50,000,000 for the care we are ing of the crop have been advanced, giving her. but it seems apparent that they cannot become immediately effective to by-guess-by-gosh affair. But the poul- of cows. And Massachusetts with but remedy the present situation. The try experts at the college are doing a handful of dairy cattle was likewise plan advanced by Gray Silver, Wash- their best to get us to give biddy a able to produce a million pounds more

crop in growers' hands has merit, and probably steady the market to a degree which would make the crop net cost of production to growers.

Lacking adequate commercial machinery for the present orderly marketing of the crop through a growers' pool of sufficient magnitude to cope with the situation, orderly marketing must be generally practiced by indiof the market is to be avoided. And the small grower as well as the large producer should give the subject thoughtful attention, since wheat prices are to a very considerable extent a barometer indicative of the probable trend of prices for other foodstuffs.

Risks in

Many billions of dollars are invested in the growing of crops on American Agriculture farms. In no other line of production is

there the amount of capital required, nor the volume of labor employed as in the growing of our staple and special crops.

Because of the magnitude of the investment, many have chosen to call the farmer a gambler. This difference between the farmer and the gambler, however, has been pointed out: the farmer's risk is unavoidable; if he continues to produce crops the risks must be taken. The gambler, on the other hand, accepts unnecessary risks. He goes out of his way to take a chance.

Other businesses must also take unavoidable risks. But these are not so great as those taken by the farmer. Also, they hold less fear to the individual investor because the business man has insurance protection. His losses are distributed and become a regular charge.

But, heretofore, the risks in agriculture have seemingly been too great for insurance companies to undertake the writing of policies which will protect farmers against unavoidable losses or calamities.

The department of agriculture has, however, been making investigations along this line, and after much study has come to the conclusion that, at least, to the extent of repaying to the farmer actual damages suffered from reverses, insurance can be provided.

While a matter of such magnitude as this must come slowly, we feel certain that any practical method of taking some, or all, of the risk out of the business of growing crops will not only be appreciated but will be used by business farmers.

The Minor Major

THE activities of Old Biddy has made her one of the greatest producers of agricultural wealth in the country. This

speaks pretty well for one of agriculture's side lines.

In fact, the showing poultry has made, has awakened the farmers to its possibilities, so that rapidly it is gaining the serious consideration of the same as did similar instructions reof old wheat and the new egg money has often provided means past generation of school children.

In Michigan, the farmer's poultry

Farm Bureau Federation, for the hold- profit to ourselves. They fully realize ing of approximately one-fifth of the that poultry is a major agricultural activity which is receiving minor conif it could be generally followed would sideration. Their job is to get us to give it its just major consideration. But they are handicapped.

This \$50,000,000 industry is getting some money for extension purposes, whereby the college men can give us the message of better poultry. But these men know that they are just scratching the surface of the possibilities of poultry raising; there are vidual growers, if speculative control many unsolved problems which they are anxious to solve. But the handicap is that they are getting only \$500 for experimental purposes. On such a small amount nothing much of practical value to the practical poultryman can be learned. And in comparison to the amounts used for other agricultural lines it certainly is very small.

Perhaps the reason that not more has been appropriated is because we as poultry raisers have not put our influences behind the demand for it. It would be well for all of us interested in poultry to use our influence, no matter how small, to help our poultry experts to get greater appropriations for their investigational work. From a selfish standpoint it will pay us to do so, for from such investigations we will learn how to get greater profits from our poultry.

Too Much Dairying?

I N all probability we could look in vain for commercial product which, during these past few years, has received more fav-

orable consideration from the press, platform, and school-room, than has milk and its derivatives.

This raises questions in the mind of thoughtful and cautious dairymen. They are wondering whether or not this favorable attention to dairy products will not hasten the day when the dairy business will be overdone. Production may be so increased through this publicity as to make dairying unprofitable for the person who keeps

No one can deny to the dairymen the right to ask these and similar questions. However, too many dairymen forget that this publicity is aimed principally at greater consumption and that there are facts, which every man who keeps cows for the production of commercial dairy products, should keep constantly in mind.

For instance, despite all the encouragement which has come to the dairy business, from both throat and pen, we, today, are a consuming nation and not an exporting nation, as was the case a few years ago. Our production has not kept pace with consumption. We use more of these products than our present dairies are producing.

Then, again, men of science have been delving deep into the facts of our living, and again and again, these research men have come to the surface to tell us that, for health's sake, we must consume more and more of dairy products. These conclusions of our food experts are finding an unprejudiced reception in the minds and hearts of the rising generation, the garding the poisonous effect of alcohol we was on a thirty-five-mile road find lodgement in the minds of the again.

form of powder, or in the condensed state, it can be kept indefinitely. Beproduces about \$35,000,000 worth of cause of this very simple fact the state The only possible present remedy wealth a year. The back-yard poultry of Pennsylvania, during the past year, was in a position to produce six times did the largest dairy state in the Union, in spite of the fact that Penn-So far, this care has been a sort of sylvania had but one-half the number

ington representative of the American fair shake and thereby bring greater of ice cream than did our leading dairy state. In other words, modern dairy manufacturing enables farmers to produce raw milk where economy dictates, and then ship the preserved products to the uttermost parts for consumption.

> And finally, it has been learned, that milk casein produces a glue of excellent quality. Industry is in need of more good glue than can be secured from old sources. So now she is taking all of the milk casein that can be produced during the flush season of the year for this purpose.

> These facts about the dairy industry will aid the individual dairyman in judging more closely of factors which will have a material influence on the future of the dairy business in this country.

Detour

WHEN you go in your Oughto you see that word lots of times. It means that you gotta turn off the road you been going thirty-five miles a hour on, and onto another what you kin go only ten miles per hour.

For inst., me and Sophie was goin' along on what some folks call a marvolus road, when we come to a sign what said, "Detour, Road Closed. Follow the Arrows."

Now, I've heard of lots of folks following the horses for a kinda specu-



lashun, but it never got them anywhere, and so we didn't know if it was goin' to be alright to follow arrows or not. But we found that there's lots of speculashun fol-

lowin' arrows, but they get you somewhere just the same.

Now, this what you call detour me and Sophie made, started out tolerably well, but in a little while it takes us in the woods, what ain't got room enough for a road, but the road is there just the same. Then we come by a sand hill what we had to go into low to get down.

Of course, when you go down you gotta try and go up. The goin' up was what you call suffishunt for one day's endeavor.

My Oughto ain't a good wader; it kinda likes somethin' solid under it. Well, the consequences was that Sophie had to get out and push while I was manipulatin' the speeds. There's sometimes when its nice, when you are the only one what kin drive. I don't like to push, and besides Sophie is a better pusher than me, 'cause she is pushin' me all the time.

Well, when Sophie was out in back of the car, I says, "Alright, start." I start the engine, what you call vigorously, and we get a goin' pretty good. When I stop to see how Sophie is comin', I just see her gettin' up from the road and rubbin' the sand from her eyes. You see, the Oughto's back wheels give her what you call a sand shower. She had grit enough all over her whereabouts to last her a week. Well, besides buttin' a stump and nearly doin' lots of other things, we got along pretty good, and in a little while

Detours is all right, 'cause they is Furthermore, milk is no longer the changes. They make the regular roads of life more interestin'. Me and Sophie has just had a detour in life. We just left the old farm after hayin' and burnt up some gasoline seein' the country. It did us lots a good to sleep in different beds and eat different meals.

And now we are back, tired, but feelin' better, and we got somethin' to tell other folks.

I think everybody should take a detour once in a while.

HY SYCKLE.

They Produce Superior Products

Then When Buyers Become Acquainted with the Quality of the Goods the Marketing is Not so Difficult

By H. C. Rather

ID the urgent demand for more efficient marketing of farm prodthat have arisen in response to this their stocks of seed from a variety Improvement Association, therefore, is ucts and the many movements demand, it is not amiss to consider the work of that nature being done by the Michigan Crop Improvement As-

The Michigan Crop Improvement Association is an open organization of Michigan farmers whose function is to produce and distribute quality seed of seed as well as its ecnomical produc-

In this work certain fundamental laws which govern every successful business are recognized. The association recognizes first that if its seeds are to command a premium over ordinary farm seeds they must possess greater value. People will not pay premiums for common products. To give the added value the association standardizes its product on the basis of a rigid inspection system impartially supervised which makes possible the certification that all seed sold comes up to high standards of merit and desirability.

Much of the superior value of association seed lies in its breeding. The work in plant development is done by the Farm Crops Department of the Michigan Agricultural College.

Each year M. A. C. plant breeders are contributing something of vast importance to Michigan agriculture in the way of improved crops. Rosen rye, Red Rock wheat, Worthy and Wolverine oats, Duncan and M. A. C. Yellow Dent corn, Robust beans and the new Hardigan alfalfa, are active testimonials to the value of this work.

Farmers frequently desire to renew

of known merit. Too often it is im- seed of adapted high-producing variepossible to secure seed of sufficient ties, since only those varieties of dempurity to really perpetuate the desirable characteristics of that variety. The association in its cooperative relationship with the Michigan Agricul- mixtures, good color and appearance, tural College gives growers assurance that they may renew seed from deimproved crops varieties. This, of pendable sources. To do this requires course, involves the marketing of the a knowledge of the ancestry of the seed and a knowledge that these previous generations have been grown without contamination. We have such data on certified seed. We can trace its ancestry back through inspected fields to its original pure line source and while these inspections are put on by the Crop Improvement Association they are supervised impartially by trained men from the agricultural col-

Seed certified by the Michigan Crop

onstrated value are accepted for inspection. This insures purity of variety, freedom of weeds and other crop good weight, and high germination. These qualities give certified seed ex-Fundamentally, traordinary value. the rendering of such service is the basis upon which all successful marketing is done.

The organized marketing of certified seeds hinges first and foremost upon organized production. A standard quality product would not be possible if each member were growing a different kind of seed. Organized production and organized inspection insure standard grades of seed, both as to heritage and outward quality.

But the farmers of the Michigan

Crop Improvement Association are not resting their faith on that pretty adage about him who builds a mousetrap better than all others will have the world beat a pathway to his door in the wilderness. Michigan's certified seed growers are placing their "mouse trap" in conspicuous places on widely traveled highways. Every legitimate means is used to attract the attention of buyers to certified seed, just as great manufacturers call the public attention to their products.

Farmers buy seed from several sources. They buy from their neighbors, from local seed stores, from cooperative and private elevators and from large seed houses. Not a single one of these channels but what through it there is passing Michigan certified seed.

Nearly every grower in the association sells an important percentage of his crop to his neighbors. Several of the seed growers have built up strong reputations as seedsmen and men like C. D. Finkbeiner, of Clinton, of Red Rock wheat fame; Ralph Arbogast, of Union City; Charles Laughlin, of Dansville, and L. L. Lawrence, of Decatur, are able to retail their entire seed crops from the farm.

Other growers find an excellent outlet for their certified seed through the local elevators. Milo Robinson, of Union City, has been selling his Pickett corn through an elevator for several years. The venture has been profitable to himself and has been carried on to the extent that that entire community is practically standardized on this excellent variety. Claude Cole, of Caro, Ray Gilson, of Midland, and others, found this to be an excellent way to sell certified Robust beans.

(Continued on page 61).



This Shipment will Help Build Michigan's Reputation as a Seed State.

The Tree that Made Michigan

Is Now Being Grown Extensively in Our Large State Forest Nurseries. We Should Protect It Against the Blister Rust.

By Dow V. Baxter

7 HEN Jean Nicolet visited what is now known as the great state of Michigan, or later in 1668, when Pere Marquette paddled along the northern shores of Lake Huron,

in the history of the world. The people honestly believed, for years after the first saw mill operated worked easily and could be put to alat Mackinaw, that Michigan's great most as many uses as wood itself. white pine forests were inexhaustible. The industry assumed immense proportions and logging the famous cork, soft needles arranged in clusters of pine began on a large scale soon after the Civil War. That generation of By counting the needles, the white lumbermen, the real founders of the state, have now seen the passing of from the other pines occurring in the the white pine and of Michigan's great state. Jack pine and Norway or Red thrifty. This disease already threatforests.

ily timbered and productive, thousands and thousands of acres have can identify the white pine. been changed into waste sand, producing little save sweet ferns and huckleto tell the story. Experience of the past fifty years has brought us in contact, only too real, with the deplorable calamities of destruction and almost that made Michigan.

and the trees were plentiful. It was our region was one of the greatest used for everything from houses down Forest near Ann Arbor. potential lumber-producing countries to firewood. White pine made good shingles, it made good flooring, and rafters. The clear, straight grain

The white pine tree may be easily recognized by the character of its fine five. Five needles occur in a bundle. pine may be readily distinguished Today it is difficult to locate even a ter. The smooth light-colored few acres of the original stand. In the young trees or of the twigs and many sections of the state, once heav- young branches of the older veterans is also a good character by which one

At the state nursery on the Higgins Lake Forest in Roscommon county, berries. Only charred stumps remain thousands of young pines are grown yearly in one of the largest nurseries in the country for the purpose of reforesting idle lands. The white pines are also grown in large numbers at the extermination of the white pine the Michigan Agricultural College White pine for the long period of ed with the trees. The State Univer- the parasite grows down into the twigs. years made up a principal cut for the sity, through its forestry department, The bark becomes swollen and finally

lumber industry. The lumber was best is also carrying on extensive experiments with white pine at the Saginaw

The white pine is also highly adaptive for ornamental planting and its value cannot be underestimated. However, the greatest care should be exercised when one is purchasing white There is a disease known as the white pine blister rust which is one of the tree's greatest enemies. This rust is often difficult to detect on pines for a long period after they have been infected, and during this stage the trees may seemingly appear to be pine, have only two needles in a clus- ens white pine in certain sections of our country and has been found as isolated cases in two Michigan coun-

The White Pine Blister Rust.

The parasite was brought into this country from Europe, but it was not discovered in time to be completely eradicated. However, the blister rust can be controlled, providing the proper measures are immediately taken by pine owners.

The rust is a parasitic fungus which kills the trees. Infection of the pine where experiments are being conduct- takes place through the needles, and

yellowish blisters break through the diseased bark. These are formed during the spring. These pustules are filled with spores which are blown great distances by the wind. They are not able to reinfect pine, but are capable of infecting currants or gooseberries. The cultivated black currants are especially susceptible. The rust appears on the undersides of the leaves, producing spores which are capable of infecting other currant and gooseberry plants. In this manner, the rust may become widespread during the summer. Later on in the season, spores of another kind are produced on the diseased gooseberry and currant leaves. These spores may bring about the infection of white pine.

To prevent further dissemination of the rust, the government has quarantined many sections of the country. Shipping out of currant or gooseberry plants and white pines from states where the rust is known to occur, is prohibited.

Diseased plants should be burned at

You can protect your pine if the gooseberries and currants are pulled up for a distance of 900 feet. The rust must first grow on currants or gooseberries before the life cycle of the parasite is complete. The remedy takes advantage of this-the eradication of all such plants within this area.

Late News from Washington

IS GETTING ATTENTION TO AGRI- public by the treasury. They show large amount of foodstuffs which can- tion of the farmer and equipped him CULTURE.

FARMER CUNNINGHAM is evidently getting in some effective work on the Federal Reserve Board. It is apparent that it is making an effort to give substantial aid to farmers in the marketing of their crops. A circular issued by the board calls the attention of all reserve agents to "the importance of the federal reserve system in providing adequate financing for the orderly marketing of agricultural products during the coming marketing sea-

Some timely and pertinent advice is handed the country bankers. It is suggested that "officials of all the federal reserve banks, including branches, inform themselves fully regarding the added facilities for agricultural financing made possible through legislation enacted during the last congress. This done, the federal reserve banks should give the information to the public, especially to the member banks, cooperative marketing agencies and producers and buyers of agricultural products.

REPORT IS ENCOURAGING.

tained in the figures covering the government's financial operations for disadvantage of both the producer and ods that our buyers use. We have crushing burden of interest charges on

007,135,480 and expenditures of \$3,697-478,020, leaving a surplus of \$309,657,-

The new tariff bill is proving a success from the point of raising revenue. Receipts in customs duties totaled \$561,928,866, almost sixty per cent greater than for the fiscal year ending

CITY FOLKS OBJECT.

HE recent proposition advanced by Gray Silver, Washington correspondent of the American Farm Bureau, that farmers hold off the market 200,000,000 bushels of this season's wheat crop, by the aid of the warehouse and agricultural credit acts, has met with caustic criticism in the metropolitan papers, the editors seeing in

In reply to these criticisms, Mr. Silver says that if the 200,000,000 bushels for a surplus in excess of our domesheld on the farms through the agency

receipts for the twelve months of 4, not be consumed will not only demor- with one of the greatest banking inalize the wheat market but the mar- stitutions in the world through the ket for other foodstuffs. Restoring general rural credit law. We have semean the price of bread would be raisvestigations the price of bread has very little to do with the price of wheat. It was shown in a congressional investigation in 1920 when price that a ten cent loaf of bread would sell for eight cents or more if all the ingredients necessary to the making of bread were contributed without cost.

LAWS FOR BENEFIT OF AGRICUL-

N his report of the Washington of-In his report of the American Farm Bureau the proposal an attempt on the part Federation, Gray Silver, Washington of farmers to hold up the consumers. representative, says that the sixty-sev-

wheat to cost of production does not cured the enactment of several laws of the greatest value in defending ed, for according to congressional in- farmers and the general public from the inimical practices and selfish exploitations by the predatory interests that seem impossible to cure without legislation. We have made a start in wheat was selling at twice the present the direction of legislation affecting the lowering of farm costs in what we

Mr. Silver put much emphasis on the question of lower production costs: "The Muscle Shoals project is to be the test case of the application of the fundamental thought that the question of applied power lies at the root of farm costs, and also of farm comfort and well being." The basic solution of the problem is to get rid of the crushing interest charge which is the chief part of water power cost. The enth congress enacted twenty-six laws nub of the Ford proposition is to apof benefit to agriculture. "We have ply earnings from the Muscle Shoals of wheat which we are likely to have achieved the authorization of coopera- power utilization to amortize, that is, tive marketing with its big implica- gradually pay off the original cost of tic and export needs goes into the tions of order, foresight, prudence and the improvement. After a certain hands of speculators instead of being adaptability in marketing, giving us number of years, Mr. Silver points out, the strength of massed millions and the government investment will be re-GRAIN of encouragement is con- of the intermediate credit act and the arming us for the contests of the mar- paid and the Muscle Shoals developwarehousing act, it will do so to the kets with the same big business meth- ment will not have to reckon with the the fiscal year ended June 30, made consumer. To dump on the market a brought about the financial emancipa- capital that refuses to be paid off.

Surveying Michigan Crops for 1923

First Government Estimates Show that Despite Labor Shortage Farmers will Harvest About Normal Yields

provement in nearly all crops dur- last year of 49,434,000. ing June; corn, beans, alfalfa, ten-year average condition on July 1. Hay is the most disappointing, although alfalfa has maintained its splendid reputation by adding a good crop to the otherwise light hay production in Michigan this year. Strawberries were seriously reduced by the drought, and pears and plums are relatively light, but all other fruits promise well, according to the July report issued by L. Whitney Watkins, commissioner of agriculture, and Verne H. Church, agricultural satistician, United States Bureau of Agricultural Eco-

Corn.—A good acreage was planted, but a shortage of labor, and a heavy reduction of two per cent from that of last year, leaving 1,686,000 acres. or six per cent better than the average of the last ten years. This forecasts a crop of 60,022,000 bushels, which is nearly equal to that produced last year.

cent in condition during June was reported, making the condition seventy- in 1918, when some 500 farmers met will be a band concert and other en. ing a production of 6,719,000 bushels. eight per cent as compared with eigh- on the M. A. C. campus for a special tertainment features, with President As in all crop estimates, future weathty-five per cent last year, and a ten- war-time wheat day, the Summer R. S. Shaw presiding over the meet- er conditions may materially alter this erage of seventy-nine. This slight improvement brings the esti- the state's most important agricultural mated production up to 15,478,000 bushels, or nearly ten per cent more wheat remaining on farms is estimated at 6.5 per cent of the 1922 crop. the latest developments in the agricul-The condition of spring wheat is also tural experiment station; and a gen-work. seventy-eight per cent.

Oats.—The season has been dry for gatherings in the state, is held. oats and the straw is very short on

HERE has been considerable im- 45,298,000 bushels against a production ered the production, as compared with June hastened maturity. A few east-

peaches and grapes were above the dry weather in common with other materially of late. The present out- 261,000 bushels. look is for a crop of 3,299,000 bushels, as compared with 3,500,000 last year. The straw is short in many sections but is apparently filling well.

Barley.—The crop has suffered from The present condition is eighty-six per supply of moisture, have a very good cent, two per cent below the ten-year spring crops, but has improved very average, and represents a crop of 7,-

Hay.—Clover and timothy hay proved to be the poorest of all Michigan crops this year. Dry weather and a backward season prevented a normal Rye.—The reduced acreage has low- growth and the hot weather late in

last year, by about 1,000,000 bushels. ern counties, that had a more plentiful crop of hay. The estimated production is 3,588,000 tons as compared with 4,530,000 tons last year. Alfalfa is in good condition, being two per cent above the ten-year average. The first cutting has been completed. The hay crop for the country as a whole is over 6,000,000 tons less than in 1922.

Pastures.—The condition is eightythree per cent as compared with eighty on June 1, and a ten-year average of eighty-six.

Beans.—Farmers of Michigan have planted an increased acreage in comparison with last year, many potato growers having substituted beans for potatoes, and other crops having been reduced in many sections. The increase is largest in counties outside the central bean-growing area, and for the state amounts to twenty-four per cent over last year's harvested campus trees in the afternoon will acreage, or a total of 568,000 acres. tion, as the headline speaker. Eben Shortage of labor and a greater Mumford, among the best known and acreage of sugar beets prevented a Wheat.—An improvement of two per record crowd of five thousand farmers. most talented speakers in the state, larger increase. The present condifigure. The production estimates for Women will have their own head other bean-growing states are as folsin, 148,000,000; Colorado, 1,423,000; California, 4,473,000; Idaho, 534,000,

> Sugar Beets.—A much larger acreage was planted this year. The condition is slightly below normal as considerable replanting was necessary. The Many acres of interesting and valu- ic, will be placed on the campus near present outlook is eighty-four per cent

Field Peas.—The condition is eightysome sections, and they are apparently Farmers' Day. Blue ribbon winners be at these exhibit booths to discuss seven per cent, or one per cent below normal.

Farmers Gather Next Week

On July 27th Annual Farmers' Day will be Held at M. A. C.

ed for the show ring, experimental ters of agricultural abandonment of farms has caused a plats ready for inspection, and general groups from widely scattered sections are completed for the sixth annual The condition is eighty-nine per cent, summer Farmers' Day at the Michigan Agricultural College, Friday, July 27.

> every section of the state will drive of the American Farm Bureau Federa- the amount actually planted last year. to East Lansing for the big gathering, which is expected to equal last year's

Farmers' Day has grown to be one of ing. eral social picnic, rivaled by few other

the light and rolling lands. Consider able experimental work in crops and the meeting ground. Specialists from of a normal crop. able improvement has taken place in soils fields will be inspected during the various college departments will

With speakers booked for the gentry classes will pass in review. Coneral program, live stock groom- ferences will be held on various matinterest, and entertainment features listed, plans of Michigan will gather over the picnic tables in social hours.

The open air meeting under the Automobile parties from practically find O. E. Bradfute, of Ohio, president This is only about twelve per cent over From a comparatively humble start will also address the gathering. There tion is ninety-one per cent, represent-

gatherings. The keynote is sounded quarters in the college woman's build- lows: New York, 1,463,000; Wisconthen on many important farm prob- ing during the day. Special games than last year. The amount of old lems; visitors get acquainted with the will be conducted for the children unwork of the college, and post up on der the direction of R. A. Turner, the and New Mexico, 229,000 bushels. state leader of boys' and girls' club

Outdoor exhibits, each stressing some vital and timely agricultural topfilling well. The crop is estimated at in horse, cattle, sheep, swine and poul- special farm problems with visitors.

INATE NEXT CONGRESS.

coming strongly for lower taxes, Senator Smoot, of Utah, who is to ture. become chairman of the senate finance committee, says there will be no revision of the revenue laws at the next session of congress. Railroad legislation, says Senator Smoot, is certain to be one of the first considerations of the new congress. Farmers in the west will not be satisfied until freight rates are lowered.

URGES THE HOLDING OF WHEAT. termediate credit banks.

E NCOURAGED by the western LABOR ASKS FOR HIGHER WAGES. speeches of President Harding, in which he has spoken frequently of his earnest desire that some system be the American Farm Bureau Federa- all the government navy yards have

RAILROAD LEGISLATION TO DOM- agriculture, who has just returned from Rome, where he made a survey of statistical methods of all foreign NOTWITHSTANDING the demand countries in reporting crop data to the International Institute of Agricul-

> HEADS FARMER-CREDIT INSTITU-TION.

> M R. CHARLES E. LOBDELL, who recently resigned as commissioner of the Federal Farm Loan Board, has been appointed fiscal agent and general counsel for the twelve federal land banks and the twelve federal in-

F high wages in the industries have an influence in boosting prices of devised whereby the farmer may re- farm products we may look forward ceive a larger return for his labor and to a high range of prices for farm investment, the Washington office of products the coming fall. Workers in



Real Opportunity for getting First-hand Information and for Getting the Body and Mind in Condition for Routine Duties of Life, is Furnished by the Auto Tour.

tion has called upon the President to been granted an increase of ten to

By prevailing upon the farmers to avail themselves of the new warehousing and intermediate credit acts and withdrawing from the visible supply for this year a minimum of 200,000,000 bushels of wheat by warehousing under government supervision, that quantity on the farms to be financed through the Intermediate Credit banks and not to be distributed during this consumption year, it would give the farmers an opportunity to adjust their acreage in fall and spring seedings so that no unduly large surplus need exist when marketing the next crop. Mr. Silver thinks that such a move would lift the price of wheat from seventyfive to eighty cents, the present price, to \$1.40 or \$1.50, and would continue it on that basis through the year. He believes the farmers have a right to store wheat on their own farms under the warehousing and credit acts, and that this move would go farther to better the position of the wheat growers than any other proposition that has been made.

ITALIANS ARE POOR PRODUCERS.

ket statistician of the department of to the price.

use his influence in promoting a cam- twelve per cent in wages. The anpaign to induce wheat growers to hold thracite miners are demanding a twen-200,000,000 bushels of this year's crop ty per cent wage increase with a twooff the market, the wheat holding to year contract. There is an upward be financed by the Intermediate Credit. tendency in all lines of industrial la-

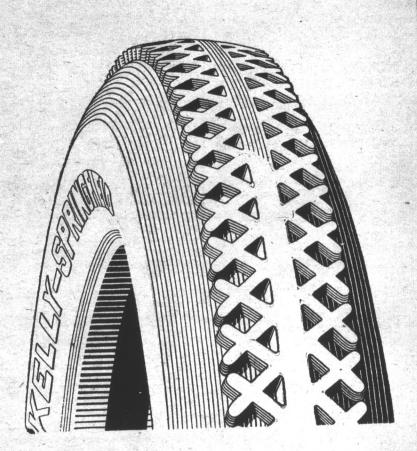
Reports are coming to Washington from all parts of the country that it is about impossible to secure farm workers at any price. Many farmers are seriously hindered in their harvest because of this labor shortage.

SEEK DATA ON NITROGEN SUP-PLIES.

Two nitrogen experts in the department of agriculture have gone to Europe to study the various processes of taking nitrogen out of the air for fertilizers. At this time two experts in the Bureau of Mines, Department of the Interior, are on their way to Chili to investigate the Chilean nitrate industry.

Much evidence is being gathered which indicates that the control of the present available nitrate supply is none too favorable to the American farmers, who are among the world's largest users of nitrogen. Charles J. Brand, market specialist for the department of agriculture, who recently returned from Europe, says the evolution of the nitrate trade is operating to give Great Britain a strong advan-TALIAN fruits sell at prices below tage over this country. American citrus fruits in the Amer- of prices for Chilean nitrates practiican and British markets, because they cally rests with a London committee are not properly graded and of uneven made up of representatives of the Brit-The apples on sale in Italian ish nitrate houses. With ninety-seven markets are wormy and of inferior per cent of the output controlled by a quality. The Italian farm is cultivat- producers' association, competition ed on an intensive scale, but there is which might force efficiency and econmuch loss because of a lack of spray- omy in the production of the fertilizer ing knowledge and spray materials is eliminated, and the United States, and apparatus. This is the informa- which buys half the nitrate exported tion given out by Joe C. Barrett, mar-, from Chile, is left without any say as





A pedigreed tire for farmers

There is no place on the farm for "culls." Pedigreed stock pays best.

The same is true of tools, machinery, automobiles and tires. The best is most profitable in the end.

For more than twenty-five years, Kelly-Springfield Tires have held the blue ribbon for high quality and long mileage. Their pedigree is unquestionable.

To buy inferior quality because of its lower price is sometimes a temptation, but when it comes to buying tires, there is no need to be satisfied with any but the best.

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Employed by L. W. July 21, 1923

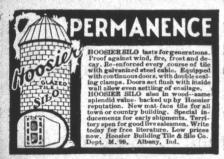
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may have a bunch or bruise on his ankle, hock, stifle, knee or throat.

BSORBINE

will clean it off without laying up the horse. No blister, no hair gone. Concentrated—only a few drops required at an application. \$2.50 per bottle delivered. Describe your case for special instructions, and Book-8 R free. ABSORBINE, JR., the antiseptle liniment for manticad, reduces Painful Swellings. Enlarged Glands, Went, Bruthes, Varicose Vehicu; allays Pain and inflammation. Price \$1.25 a bottle at druggists or sellvered. Liberat trial bottle postpaid for 10c.

W. F. YOUNG, INC., 468 Lyman St., Springfield, Mass.

DOGS

PURE BRED FOX HOUNDS all ages. Pups bred esand Rabbits. W. E. LECKY, Holmesville, Ohio

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

TRANSFERS STOCK TO NEW COM- one having no notice, actual or con-PANY.

Three years ago I paid \$390 for twelve shares in a motor company. They are now going to reorganize as a new concern. Their scheme is to get the old stockholders to buy stock in the new company to the number of shares they held in the former com-They claim the stock in the old company is worthless unless the stock is bought in the new company. Does this hold good in law?—E. W. P.

The enclosed circulars show that almost the entire stock voting and constituting a very large majority of the outstanding stock of the old company has voted to transfer all its assets to the new company; and if the preliminary notices of the meeting of stockholders were proper, as we must assume, the transfer is good, and the old company has no property left. I take it the consideration to the old company for the transfer was the assumption by the new company of the old company's debts and the release by its creditors.-Rood.

BUILDING AND REPAIRING LINE FENCES.

When A. claims a certain part of fence, is B. the one to fix holes where they are below wires? Can C., to please A. and spite B., order B. to put up line fence, picking out a fancy and expensive kind?—J. L.

Each fixes his own part of the fence and keeps it in repair, and it may be made of any material that will make a fence sufficiently secure to turn stock usually kept upon a farm. The material is selected by the person making the fence.-Rood.

FILLING DITCH.

Can C. fill a line drain ditch if slope of ditch and dirt out of same is inside B's survey stake, and filling causing drainage to be blocked from both B's and C's rear land. Ditch in use over ten years.—J. L.

The right of C. to fill the ditch depends upon the right of B. to have it open; and this in turn depends upon whether the ditch was originally constructed by agreement, or as a public ditch, or was along the line of a natural watercourse, or has been laid out and maintained for more than fifteen years. Under any of these conditions B. would have a right to have it kept open.-Rood.

TRESPASSING HENS.

Can A., when an occasional hen gets into her yard through hole under A.'s fence, catch the hen and wring its neck and throw back into B.'s yard? Can A. imprison hen? If so, can A. catch and carry with wings of hen, imprison her in a dark unventilated box, give no feed or water or fix a nest?—J. L.

A. is liable to the owner of the hen for any intentional damage done to it while found trespassing, but has the right to keep the hen till the damage it has done is paid, together with the cost of keep. He would not have the right to shut the hen up without feed-

LAND IS SOLD.

A. sows rye on his own land, sells rye to B., and sells farm to C. No reservation was made when rye was sold for the straw. Does B. get the straw?—Subscriber.

A person owning growing crops may sell his crops separate from the land the straw, but a sale of the land to ing up possession.—Rood.

structive, of a prior sale of the crop would entitle him to the crop, including the straw.-Rood.

PERIOD OF REDEMPTION.

How long can I stay on farm after foreclosure of mortgage? Notification was served on January 9, 1923. Sale takes place on August 11, 1923.—S. N.

If the foreclosure is by advertisement the mortgagor is entitled to redeem at any time within a year after the sale. If the foreclosure is in chancery he is entitled to redeem within six months after the sale. When this time has expired, the purchaser at the sale is entitled to possession at once. -Rood.

LIVE STOCK RUNNING AT LARGE.

What are the laws in Michigan relative to live stock running at large in the highways?—F. A. P.

There is a statute providing that the township may, at town meeting, vote to allow stock to run at large within the township, and if this is done the stock is not subject to be taken up as strays by reason of being in the highway. But even such a vote does not excuse the owner of the stock from liability from any depredations they may do by wandering outside of the highway even though unfenced. The owners of land adjoining the highway are not under any obligation to fence it and are entitled to seize and impound any animals trespassing thereon and hold them until payment of any damage they may have done.-Rood.

FARMER'S LIABILITY FOR NEGLI-GENT INJURY.

If a farmer's hired help gets hurt, the farmer liable for damages? Is it lawful to cut trees down on my side of the public highway?—C. K.

Farmers are expressly excluded from liability under the employer's liability act, but are liable as at common law for any injury resulting from their negligence if the person injured is free from contributory negligence.

In a prior issue, the right of the owner of trees growing along the highway to cut them was discussed at length. The person owning the abutting land owns the trees in the highway.-Rood.

MOTOR VEHICLE OPERATOR'S LICENSE.

How old must a person be to own and drive a motorcycle? What is the cost of a driver's and regular license, and where can they be obtained?

License to operate a motor vehicle is obtained from the secretary of state, costs fifty cents, and the person must be at least sixteen years of age to obtain the license. This matter is governed by Act 368 of Public Acts of 1919.—Rood.

A CORRECTION.

In an item published in the Service DISPOSING OF CROPS WHERE THE Department of the July 7 issue, under the heading of "Fixtures," there was a misprint.

The corrected item follows:

I am renting a farm. If I put up a poultry wire fence on the farm, can I take the fence down and take it with me when I move?—H. H. W.

Such a fence would be a fixture which the tenant would have a right and the sale of the crop would include to remove at any time before deliver-

AUTOMOBILE INSURANCE NECESSITY

Howell Company has a Remarkable Growth

A review of last year's fatal accidents show 81 per cent of the total number of people killed by automobiles were pedestrians. Sixtytomobiles were pedestrians. Sixty-six per cent of the pedestrians so killed were, according to the cor-oner's verdict, more careless and negligent than the drivers. It is said that 80 per cent of the pedes-trians killed were killed while jay-walking. Automobile owners find that with the increased traffic there is great danger of accidents and it is important to keep insured so as to get the service of able adjusters and investigators to determine who

The Citizens' Mutual Automobile Insurance Company of Howell, has had a remarkable growth. During the first six months of the year 1923 the increase in new business was,65 per cent while the increase in net assets in comparison with a year ago was 83 per cent. On July 1st the company had total assets of 1st the company had total assets of over \$350,000.

It has been the policy of the company to pay its claims promptly and to investigate and determine the rights in serious cases. The company has found that the majority of people are fair but in cases where the injuries are exaggerated or where the claim is without merit the company is prepared to make or where the claim is without ment the company is prepared to make the contest in behalf of its policy holder. Many of the leading men of the state, such as Ex-Governor Rich, the late Governor Warner, in fact, over 40,000 of the leading bus-iness men and farmers of the state are insured in this company.

Citizens' Mutual Automobile Insurance Co. HOWELL, MICHIGAN

Hardiness!



Every man who milks cows for a living knows that Hardiness is a necessary characteristic of a good dairy cow.

HARDINESS IN HOLSTEINS MEANS:

The ability to do well for the general farmer, as well as for the commercial dairyman.

The ability to readily adapt them-selves to any climate and to profit-ably turn available farm feed into milk and butter-fat.

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HOLSTEINS

For bone spavin, bog spavin, thoroughpin or other diseases of the hock (symptoms and treatment explained in direction book with every bottle) Gombault's Caustic Balsam is the reliable remedy to use.

Unequalled for most horse allments. Supersedes firing and cautery. \$1.50 per bottle at your druggists or direct upon receipt of price. Good for humans, too. The Lawrence-Williams Co., Cleveland, Ohio.



Caustic



SPRINKLER PIPE AIDS LATE STRAWBERRIES.

THIS berry grower, E. O. Westerfield, employs a single line of sprinkler pipe with considerable success in the raising of Everbearing strawberries. The sprinkler is not called into operation save as the dry weather requires its use, but at such time its service works wonderful results in keeping the plants from drying up and losing the power to put out new blossoms.

Mr. Westerfield believes in rich soil for strawberries. He aims to keep the districts, they offering prices which, plants well cultivated and in the case of the Everbearing varieties he removes the blossoms periodically until fresh cherries is more attractive. about the first of August, after which he permits the fruits to mature so long as growing weather permits of and Muskegon counties gather this

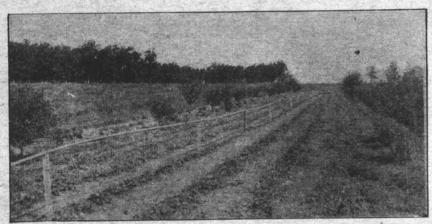
as good as last year, but the increased acreage leads growers to believe the total crop will be nearly as large. The present estimate is for a commercial crop of 5,440 cars as compared with 5,800 in 1922.

Dry weather shortened the strawberry production fully one-half in some sections, and reduced the total for the state to sixty-three per cent of a crop.

GATHERED FOR FRUIT MEN.

ANNERS are hedging on cherry prices in the western Michigan the growers claim, do not warrant handling the crop. City markets for

Raspberry growers of Ottawa, Kent



This Easily Built Overhead Water System was Responsible for Increasing Mr. Westerfield's Late Crop of Strawberries.

crop is secured in the fall. This he thinks is the only practical course to extension specialists. follow with the late fruiting varieties It is usual on this place to be able to gather enough berries for a strawberry shortcake at Thanksgiving time and Mr. Westerfield states that somehow strawberries never "hit the spot" quite so effectively as they do just before snow flies .- O. C. .

MICHIGAN'S FRUIT CROP NOT SO LARGE AS LAST YEAR.

H ERE are the estimates of the fruit crop in Michigan as made by the federal crop reporters:

The prospect for apples indicates a summer and fall varieties. The comthan produced in 1922.

Peaches show a prospect of seventyfour per cent of a crop, or a total of vantage of the outing. 1,333,000 bushels. Last year's crop was 1,440,000 bushels.

the condition being fifty-two and forty ness more closely. For instance, many per cent respectively. The pear crop of these men have observed that Mich is estimated at 398,000 bushels as compared with 672,000 last year.

Blackberries and raspberries show a condition of eighty-four per cent as compared with an average of eighty-

Cherries are placed at seventy per a failure to set freely.

their ripening. It is this grower's week on the farm of H. L. Dinkel, near method to plant a new bed every Conklin, in Ottawa county, to make a study of methods of controlling rasp-He finds that in this way a larger berry diseases. The demonstrations are under the supervision of M. A. C.

> Looking to the development of a permanent market for Michigan fruit, organized growers at Hart, Ludington. Scottville and Onekama have raised an advertising fund and are running page advertisements appealing to the housewives of Milwaukee. This appeal runs, "Ask for and insist on Michigan cherries, berries, plums, pears, apples and peaches. They are the market's best fruit, famed for their flavor."

The cherry camp at Northport will probably open about the first week in August. This camp was started durcrop of 11,042,000 bushels, as compar- ing the war when help became so ed with 11,850,000 last year. The set scarce that the only method of getting varies widely and there has been a the crop harvested was to secure the heavy drop in some orchards during services of girls who desired to spend June. Winter apples are considerably their vacations in the northland. The heavier on the average farm than the girls pick cherries to defray expenses. The experiment was so successful mercial portion is placed at 1,840,000 that it has been repeated each year barrels, or about ten per cent more and now is a permanent institution. This year two hundred girls from western Michigan cities will take ad-

Fruit growers generally are watch-Pears and plums are relatively light, ing the consumption end of their busiigan restaurants and eating places do not supply their customers with fresh Michigan fruits in season. Some of the keepers state that Michigan consumers do not call for these fruits. The opinion of thoughtful people is, however, that consistent publicity cent of a crop. The crop is very good would bring a wider use and appreciain some orchards; in others there has tion of the splendid products grown been a considerable drop and in some upon Michigan trees, bushes and vines to the fullest satisfaction of the con-

BETTER FERTILIZERS

Darling's Fertilizers Are Better-

BECAUSE Darling's Animal Base Fertilizers derive ammonia from high-grade animal tankage—the most effective source known.

BECAUSE Darling's Fertilizers supply sufficient, quickly available ammoniates, for early plant growth while the bulk of the ammonia is supplied gradually throughout the growing season-this insures continuous and maximum plant development.

BECAUSE we produce Acid Phosphate lower in free Sulphuric Acid, containing less moisture and in better mechanical condition, manufactured by a special process.

BECAUSE we have the only plant in the Middle West using this special process.

BECAUSE we have been experimenting with different kinds of Fertilizer on different crops for over twenty years. From these actual field tests we have developed Darling's Better Fertilizers. That our efforts have been successful is proven by the fact that today large numbers of good farmers use only Darling's Animal Base Fertilizer.

BECAUSE we are very large producers of Steamed Bone Meal which enables us to complete our list of Fertilizers. Darling's Pure Ground Bone and Half & Half always give satisfaction.

BECAUSE for over 35 years we have been producing and perfecting Better Fertilizers.

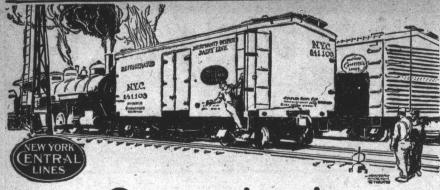
Our ideal location and special shipping facilities enable us to make prompt deliveries.

See your Darling Agent now, or write us for literature, prices and special Agency Plan.

DARLING & COMPANY Chicago, Illinois Union Stock Yards



The outlook for grapes is not quite sumer and to the benefit of the grower. Please Mention The Michigan Farmer When Writing to Advertisers



Our earnings in hauling your products

THE Government does not guarantee us any income.

The rates fixed by the Interstate Commerce Commission are intended to be such as will enable the railroads as a whole to earn at least 53/4% on the value of their properties. Out of this net income they must meet interest on debt, pay dividends to the stockholders and build up a surplus as required by prudent business management.

The railroads earned 3.31% in 1921, and 4.14% in 1922. This year they hope to do better. They must do better if necessary new capital is to be attracted to railroad development.

It was only during the period of Government operation that railroad net income was guaranteed. That income was based on pre-war earnings, and averaged $5\frac{1}{3}\%$ on the value of railroad property.

If any railroad fails to earn 5\% on its investment, the Government doesn't make up the difference; and the law provides that anything earned above 6% must be equally divided with the Government.

As stated by the Interstate Commerce Commission in a recent decision, the rate provision of the Transportation Act "carries with it no guarantee", but "it is, instead, a limitation".

NEW YORK CENTRAL LINES

BOSTON & ALBANY – MICHIGAN CENTRAL – BIG FOUR – PITTSBURGH & LAKE ERIE AND THE NEW YORK CENTRAL AND SUBSIDIARY LINES

General Offices-466 Lexington Ave., New York





HES Around the World with ONE OILING 100,000 Miles Without Stopping for Oil

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.

Did you ever stop to think how many revolutions the wheel 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

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. For full infor- AERMOTOR CO. Chicago Minneapolis Minneapolis



TRUTH-TELLING MEDICINE.

S OME of us have been perturbed, of late, about a medicine that has been administered to certain prisoners, a "truth serum," given with the thought that under its influence the prisoners would tell the truth about the crimes with which they were charged.

This is of unusual interest, even to those who do not for a single moment contemplate a career of crime. If there is a drug which may be given to us, under the influence of which we shall yield up our most secret thoughts, we must be looking for defence or an alibi. We might be led to tell where we keep all of our money; what we really think of the lady next door; what we would do if we ever had our own way; and other incriminating things. The subject clamors for at-

The drugs with which the marvels were supposed to be wrought is called Scopolamin. It is the same substance that is used to drug the patient into a condition in which pain is not felt in the celebrated "Twilight sleep." Its action is such that although the patient remains able to respond to questions, she no longer exercises conscious control of her functions. It was therefore supposed that a criminal might give truthful answers to such questions as might be asked, when under its influence, failing to realize that serious consequences might come as a result of his involuntary self-betrayal.

There is nothing to it. The instinct of self-preservation lies very strongly rooted in the human breast. Under the influence of the drug you might give correct answers to immaterial questions, but as soon as the questioner began to "get warm" around the secrets of your innermost soul you would close up as tight as a Michigan saloon. Your dulled mind would awaken to danger and you would tell things with only such accuracy as you chose to exhibit.

The principle is much the same as the one involved in hypnotism. The willingness of the victim to be used goes only so far as it is in accord with his general habits and methods of life. When the hypnotized tries to influence his subject to do things that would be contrary to the well established principles of his regular life he is balked. Even when the human frame is only acting automatically it still preserves the lines of balance that would be found in conscious effort.

After all, there is no danger. We may still have our secrets.

MOTION PREVENTS STIFFNESS.

Two weeks ago our little boy fell out of a tree and broke his arm at the elbow. We took him to a doctor who put it up in a plaster splint, but as we live fourteen miles away we have not been back since. How much attention does it need?—Mother.

You must take your boy back to the doctor at once. By this time the splint should come off and a certain amount of passive motion be begun to keep the elbow from becoming stiff. The the arm and what motions to make and you must see that the work is stiffness in joints and insure good cure.

function. Do not be discouraged if you get only slight motion at first, but keep it up.

HAS NERVOUS SPELLS.

I am thirty-eight years old and have some nervous spells that are quite severe, and I can't account for them. Does the change of life come about this age, and might my nervous spells come from that?—Mrs. M. M. C.

It is quite unusual for the change of life to occur as early as thirty-eight. It is quite apt to be ten years later. I think your nervous spells must be due to some other causes. It is not a necessary part of the climacteric that a woman must have nervous spells and go through a routine of misery. Many healthy women accomplish the change of life so naturally that they are hardly conscious of its occurrence.

CURE FOR NASAL CATARRH.

Will you please tell me if there is any cure for nasal catarrh?—O. R.

If you mean is there a medicine for catarrh that will cure every case, I answer, "No." Catarrh can be cured but it means more than medicine. It may involve a little surgical work to make good breathing possible. It means correct habits of living. It means keeping the skin of the whole body in good condition. One of the very best ways to cure catarrh is to keep the skin active by a regular daily bath. When possible this bath should be taken in a warm room, but using However, set your mind at rest. cold water. It should be followed by a brisk rub with a rough towel. This invigorates all the organs, strengthens resistance to "colds" and helps to vanquish catarrh.

INNOCENT CONTRACTION OF SYPHILIS.

I once heard a doctor say that syph-I once heard a doctor say that syphilis could be contracted innocently and that all who have active syphilis should be put in colonies by themselves, just the same as lepers. His thought was that syphilis is worse than leprosy, because the former disease is often inherited and leprosy is not. Was the doctor's statement correspond to the doctor of the doc Was the doctor's statement cor--R. G. D.

The doctor was correct in a large measure. But it is not necessary to shut the people having syphilis in a colony to themselves. The disease is only contagious in certain stages and then only by intimate contact, such as kissing, or using the same glasses or dishes. If all cases of spyhilis are reported to the proper health officer they can readily be rendered harmless. The dangerous cases are those not recognized or wilfully hidden.

HAIR TROUBLE.

My husband has Alopecia Areata and would like to know cure, details, and cause of it, how long it takes be-fore the hair comes in after spots appear?—His Wife.

I am sorry that I cannot be very encouraging about alopecia areata. It is a condition in which certain sharply defined particles of the scalp become bald, although the hair on the rest of the head may be as good as ever. Its origin is usually in some disease of doctor will show you how to massage the nervous system. The outcome depends entirely on the way in which the patient responds to treatment and done faithfully, no matter if it does is always better if the patient is of a hurt at first. Fractures in children cheerful disposition, cooperates with should never be immobilized for a his doctor and refuses to be worried. long time. It is important to get mo- It is not a disease of any definite duration as early as possible so as to save tion, so no one can set a time for its

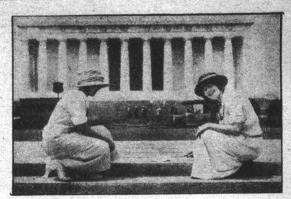
WORLD EVENTS IN PICTURES



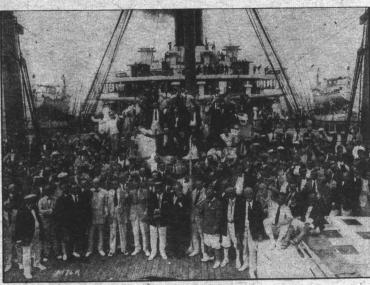
Bulgarian military governor of Sophia is being carried on the shoulders of a crowd in a revolutionary demonstration.



Jane Adams, recognized as America's greatest woman, is seriously ill in Japan.



Washington's claim as hottest place north of Mason-Dixon line was established by cooking eggs on steps of the Lincoln Memorial.



Group of guests on the giant S. S. Leviathan, which established a new world record when it covered 2,209 miles in the current of the Gulf stream, making 28.10 knots per hour.



When a two-car elevated train left the track on a sharp curve in Brooklyn, N. Y., it plunged sixty feet to the street, killing nine persons and injuring a score or more.



These young ladies are seeing "America first" by a different method than their grandmothers.



Atlantic City's mayor "knuckles down" for the first shot in the national marble tournament, in which boys from all over the United States are taking part.



Although she is an expert golf player, Maureen Orcutt's brother is undoubtedly a little nervous.



At Cheyenne, Wyoming, Mrs. Warren Harding was very cordially greeted by cow-girls in costume and on horse-back, and presented with several bouquets of flowers.



Travelers in Germany now see many former German society belles pitching hay, hoeing potatoes, and doing other farm work that the present conditions in their native country demand.



duty of carrying them about in the physical encumbrance and spiritual harness rubbed her skin in a thousand turn to her once. Her misery was domination by an unshakable and hateful will, there came a change. The middle summer went by and the winds that blew golden waves over oceans of ripe grain ushered in the harvest season.

When heavy harness was placed upon her body, Queen showed her displeasure but curbed her impulses. The collar and the hames choked and oppressed her and the blinders on her bridle tormented and frightened her. But for something they did which they did not do for her sake at all, Queen would have fought as hard as she had fought when the saddle was first placed upon her. They had led her out and tied her to a wagon wheel between two of three horses and she found herself next to the little bay mare. A few moments of sniffing noses and Queen would have endured almost anything rather than be taken away from her old friend again. She had been harnessed first and Queen was willing to tolerate anything so long as she could be there with her; and the farmer wondered at the constant whinnying that went on between the two. All the while, the big horse on the other side of Queen and the big horse on the other side of the bay mare stood with their heads at the same level, motionless, like the mere machines that they were, awaiting orders to move.

They were hitched to a binder and ordered to move and Queen's nerves tingled with the strangeness of the situation. Every move she made resulted in some disagreeable pull and the feeling of being trapped, of being held in on every side was fast arousing her and eyes. resentment and the slumbering desire to rebel. But not only did the weight of the thing they were dragging subsoul, with the beating of their hoofs, the utter hopelessness of showing resentment or attempting to rebel.

When they reached the wheat fields, the thing grew many times heavier, many times harder to pull and the deafening noise it made was distracting to Queen. But the morning was delightful; the creatures of her own

UST when Dora was resigning her- of having companionship; and though iron, smarted with the touch of per- sorrel work-horse and other workself to the irksome but unavoidable her muscles found pulling most ardu- spiration, and the hard collar choked horses in Queen's experience, saddle; just when she had learned in night's rest. When the morning wore harness seemed to be pressing her to this state of her bondage to get from along toward noon her strength was the ground. the plains she would cover, carrying well nigh exhausted and the struggle them, that finer sustenance which the to keep from going under, stimulated great draughts, but her food she did soul requires; just when she had by the whip, suffused her soul with not touch for some time and though learned to get all the happiness that agony. The day was hot and her sides she stood next to the little bay mare it is possible to get in a condition of dripped with perspiration. The new all through the noon-hour she did not

ous, they were still fresh from a her unmercifully. The weight of the she had so often wondered at in her

Her water she drank at once in put a strange dullness into her eyes.

limited way, now came down like a sort of mask upon Queen's head and

BUT with the end of the harvest period came autumn plowing. Had that been her first experience she would hardly have lived through it. It was not only harder work to drag the plow, that so often struck the rocks in its path and fairly pulled them from their feet, but the dust rising in clouds from under them added to labor and pain the last ounce of endurable agony. Life to Queen, in its endless repetition of toil and pain and abysmal discomfort, relieved periodically by a few hours' rest, was not only without purpose but without excuse. Queen did not reason her way to such a conclusion, she just felt; and in this feeling there was not even the light of illusionary hope. The knowledge that a given labor will end at a certain time, gave the hope and the courage to her master which the strange ruling of life denied to Queen.

So Queen lived through the days which she could not know were ever to end, enduring labor without compensation, getting food and water that was not as good as that which the wilds had lavishly bestowed upon her. What it was to lead to, she did not know. She could not even ask Death was but a nameless fear and the relief of death was beyond her understanding. The images of those she had known and loved in her happier past came back often in dozing moments, coming into her dreamy vision as imperceptibly as the evening comes into the day; and in going they left in her soul something that resembled hope. That was all that life offered her and it was as uncertain as were the whims of the creatures who dominated and overshadowed her existence; yet never did she reach a hilltop from which

she caught a glimpse of the open prairie spaces but the hope that freedom would come to her expressed itself like a hazy light in the dark uncertainty that engulfed her. THE reaping season passed and threshing time arrived. The farmer was plowing his fields for the next year's seeding because he had finished reaping before most of the other farmers had finished. He worked himself as hard as he worked his "critters." That was his reputation among those who did not have anything more serious against him, but they were few.

FRESH AIR

By Al. Rice

From out the dawn that breaks the East There comes to us a glorious feast; Each day, each hour, each breath we draw Is governed by a common law. Fresh air, alone, will life impart To weakened tissues, lungs and heart, It's good for aches and pains and groans, For skin and hair, and even bones. You need no fan where it is found, No wheel to turn it 'round and 'round. Fresh air is never known to "fake," Nor fear ought else its place will take. No doctor's pills we pay to use Will half the life of it infuse; No remedy nor surgeon's knife Without fresh air can give you life. If it was sold by pint or quart We'd give a dollar for a "snort." Because fresh air is never sold We do not know its worth in gold.

The dust of the fields and the parti- she was alone. cles of broken straw filled the air she

to wear out and the pain she felt due that desire, but the horses on both frightened her, she tried to lag a bit sides of her seemed to beat into her but the watchful eye of her owner soon discovered her lagging and there was a threatening cry of "Dora!" and the long whip came down upon her haunches without mercy.

Noon came at last. Queen limped on her way back home, moving along as if the other horses were carrying her, seeing nothing before her, feeling only her agony of soul and body. Painkind beside her gave her the feeling ful sores, under rubbing leather and torment. The stolidity about the old

places and made her very bones ache. overwhelming and in its salty waves

Though she had not eaten a full breathed and settled down in her nose meal, she went back to work just the same and a thousand times the whip came down upon her back adding pain W HEN her aching muscles began as a stimulant, as if she had not experienced pain enough. When at last the seemingly endless day came to its close and the harness was removed, leaving red bloody sores with rims of black dirt exposed, Queen lay down at the feet of the little bay mare and with her eyes closed, lay as if in a stupor for half the night before she rose to feed her hunger.

> Yet when the first few unspeakably torturous days went by, she seemed to have become more able to endure the

AL ACRES-There's A Kick in Tin Henry's Jug.

By Frank R. Leet SHUCKS! MY JUG'S THAT'S EMPTY - AL'S OVER IN I'VE SIMPLY TIN HENRY'S PHOOIE! THE NEXT FIELD, PLOWING GOTTA HAVE IN CLOVER- I'LL SNEAK OVER) GASOLINE!! ONE LITTLE AN' BORROW HIS JUG! GUZZLE, FIRST PRETTY SOFT AL'S DUCKED AN LEFT TIN HENRY TO DO THE JOB! SO, THE JUG! 一一一种的大

policy and the same of the same

south, remaining with it until winter set in and the wheat of the last farmer of their circuit had been threshed.

Came the last hot spell of the year. Cold winds and rain and cloud of early autumn gave way to a short Indian summer, so warm that insects long too stop to appear more than for a few hours during the warmest part of each day, came buzzing back to life as if it were springtime. Nose-flies began to bother the horses and the dirty, old, wire-net nose-baskets were brought back into use.

that oozed from the wet earth, and breathing it filled Dora with old longthe unflenced earth, like spirits, danc- trembling lips came nervous whinnies ed enticingly before her yearning eyes. which White-black did not hear. By Birds flitting through the sweet air the time the two moving objects met, sang with the enthusiasm of spring ness on her back was heavy. The traces that bound her to the plow and the

Every fall he, like most of the other lines that held her to the others who homesteaders, left his farm and joined had forgotten what freedom is, were a threshing crew some twenty miles inexorable as the will of the man, whose whip was his only argument.

They had been dragging the unyielding plow for a few hours on the first of these delightful mornings, when, looking up as they turned at the end of a furrow, Dora saw in the distant south a horse and buggy, coming at a good pace. All the way down that furrow she saw the buggy steadily grow larger and clearer. Coming up on the next furrow she could see nothing and then as she turned once more she saw White-black coming. She stopped for just a second and the whip came down The sunlit air sponged up the aroma with a stinging lash. She sprang forward and pulled along with the rest; but her head was higher than it had ing. Sensations of loping free over been for some time and from her there was a long, melodious and very and urged her to resist the forces of welcome "whoa," and the four horses evil that fettered her. But the har- stopped, facing the one horse in the

(Continued next week).

Gossip from Cherry Hill

By O. W. B.

line of work is being followed the in- the Comedy Committee an I guess if port the movement.

Cherry Hill

DEAR UNCLE DAVID:

Received your letter several days ago an was mighty glad to hear from know perty well what we need now you again. Lots of water has run down without bein' told by fellers who has the crick since I last wrote you.

We organized a Community Betterment Club with the following ideals: Better soil, better live stock, better tools, better homes, better social life an a better church (not churches). We aim to have one church in this community functioning for the whole community.

A young feller we had up here from the College put the idea into our bonnet. It sure was a good idea an lots of the folks wat never thought of anything else but sleep, eat, feed the hogs, an milk the cows now is thinking a little about their souls. Pete thought it would sound better to call it Community Improvement Association for he said people had the wrong idea here about the word Club. Said that most of them thought it meant some sort of a weapon that organizations held over people to make them do what the organization wanted.

Well he ain't so far off at that for some of these Highbrow organizations we hear tooted up so much seem to be for the purpose of somebody showing somebody else that he can belong to something that somebody else can't, at some other battle, he was the last but that isn't our idea of the Club here. G. A. R. man there an about the time Everybody is eligible, men, women, the minister got that fur in his prayer children and real-estate-agents.

was all wrong.

Reminds me of the preacher wat got a new car an he said to one of his ever takes liberties like that when I parishioners shortly after he got it, git to be an ole veteran I'm afeard I "I never knew till I got this car that there was so much profanity used by an give him a lesson. Makes me mad people." "Why how is that?" asked when I think of it. Hoping you are the parishoner, "do you hear much of the same, Vera sends her love an says it on the road?" "Do I?" he replies, to tell you to shore an pay us a visit "Why nearly everybody I bump into soon.

swears something awful." Well our old minister was so wrought up over our plans that he up

HINGS seem to be taking on an referred the situation to the Minis new life at Cherry Hill, as indi-ter's Association an they talked about cated in this week's letter from it a lot an then decided to refer it to Henry to his uncle. No matter what the Comity Committee. Pete called it troduction of something worth while, you had heard the proceedings of the but a little different, always meets op- Committee wen they Sat on the quesposition from those who should sup-tion, Comedy wouldn't haf describe them. They reviewed the situation from a to z an made a lot of recommendations wat won't be received here with much consideration cause we their eyes on themselves an their own welfare.

You see Uncle they are a lot like that fellow who went into the country to get atmosphere for a story he was writing. Wen somebody asked him how he liked it he said, "Disappointed me. Couldn't find a farmer who had a horse named Dobbin an never heard one of them say "By Heck."

Well this is about all Uncle this time. I'll keep you posted on further developments in next letter. Don't git out in the sun too much these hot days. You're gettin along in years an better be careful for old folks can't stand as much as we younger bucks.

But, Second thot, that's a unkind remark an I guess I'll take it back. It's like the minister we had on Decoration day who offered the prayer at the service. He says, speakin' to the Lord, "Oh Lord bless the Grand Army of the Republic, you know their ranks is growin' thin an they won't be with us long, etc." Jest as tho the Good Lord had to be told that.

Well, Old Josh Hartman what fit and bled at Gettysburg an lost an arm Josh got up an stumped out with his Well wen our old minister heard cane maddern a hornet an he growls about our plans for a Community something at the Reception Commit-Church he jest naturally threw a fit tee at the door which was American an thought as well as told his friends Legion men, that, "He don't want him we was all going to the bowwows spe- self or the Lord to be tarnally remindcially if we didn't tie up to some De- ed bout him gittin old an some other nomination, particular his. Everything things I better not put in black an white for fear of the law.

But say Uncle David if any preacher won't walk out but take off my coat The broilers are about ready

> As ever your nephew HENRY O'HOPE



What will your children eat during the hot vacation days?

Too much meat in summer overheats the blood; too much starchy food often interferes with digestion.

Children must have plenty of energy-producing food, but it must be wisely chosen.

Grape-Nuts is a safe and satisfying summer food. It supplies the energizing nutriment of wheat and barley, together with the natural mineral elements which many foods lack.

Grape-Nuts with milk or cream is a complete food, crisp and delicious, easily digested and quickly assimilated.

Grape: Nuts FOR HEALTH

"There's a Reason"

Your grocer has interesting details of our offer of over \$7500 00 for Grape-Nuts Recipes. Ask him about it TODAY; or write to Recipe Dept., Postum Cereal Co., Inc., Battle Creek, Mich.







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Why not spend Saturday night and Sunday in DETROIT?

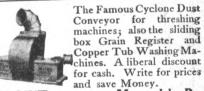
HOTEL Fort Shelby

Lafayette Blvd. at First St.

Michigan people prefer this hotel for its service, courtesy and fairness of charge. The Fort Shelby Garage is one of the finest in the world. Great excellence at moderate prices in the Cafe.

Rates per day \$2 and up Double \$3.50 and up

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You can learn to talk naturally in a few weeks.
Information Free.
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Common **Canning Troubles** and How to Overcome Them

Practically all canning troubles can be traced to two sources-imperfect sterilization or poor seal-

Happily both of these can be easily remedied. Remember that heat sufficient to kill all minute organisms must reach every part of a jar's contents. Do not pack corn or other vegetables too closely. Be sure to allow the full time called for by sterilization. If you can by the open kettle method be sure that jars and rubbers are boiled and that the food is at the boiling point when you

Seal all jars with NEW GOOD LUCK Rubbers so that no germ-laden air can get to the food within.

GOOD @ LUCK JAR RUBBERS

have been tested and approved for all methods of canning by the experts of the Home Canners' Association of America. They come packed with the following leading brands of fruit jars: Atlas E-Z Seal, Atlas Good Luck, Schram Ever Seal,



Boston Woven Hose & Rubber Co.

49 Hampshire Street, Cambridge, Mass.

Largest Makers of Jar Rings in the World

COAL Blue Ribbon Lump. Get our attractive carload prices. Farmer agents wanted Theo. Burt!4 Sons, Melrose, Ohio



27 West Elizabeth St. Detroit, Mich.

Woman's Interests

Dishwashing Made Easy

ID you ever stop to think of the time the average housewife has to spend in washing dishes, three times a day, twenty-one times a week, over a thousand times a year? A farm housewife with milk things to care for, often averages two hours a day in washing dishes, if she should attempt to do a year's dishes at one time it would take her over sixty days, even though she worked twelve hours each LOWERING SUGAR CONSUMPTION. day without stopping to rest.

How can these hours of constantly repeated work be shortened?

Helpful Equipment is Essential.

A timely suggestion has usually been to get the equipment which makes the work the easiest.

steps. First, it can be used in setting give a salty taste, however, and I the table. After the meal, all of the dishes may be stacked on it and be carried to the kitchen in one trip instead of the usual five or six. Many meal. Until one has tried it it is hard

By Marian Rogers, Extension Specialist, M. A. C.

women. If the dishes are stacked on a table, or better, on the right-hand drain board, they may be washed and placed at the left without awkward reaching across, or changing hands.

time my slogan is, "Take it with a Pinch of Salt," but literally, not figuratively; the salt saves sugar.

When cooking fruit for canning or to serve as sauce at meals for the day, A wheel tray saves perhaps the most I add a pinch of salt, not enough to always dust a little salt over the fruit in a pie before adding sugar, and over the fresh fruit I intend to serve at any

I find that an egg, well beaten, will make a good hair shampoo. Rub it into your scalp thoroughly, and then wash the hair as usual.-M. M.

For mending runs in silk hose, try a fine crochet needle. Insert the hook in the loop at the end of the run, pick up the next thread above and draw through and continue working upward exactly as if making a chain stitch in crocheting. Fasten the remaining loop at the top of the run with a bit of fine DURING canning time and fruit darning cotton. Hose mended in this manner look like new.-M. A. P.

A HOME-MAKER'S EXPERIENCES.

WE have a number of black wal nuts and I find that nut bread is very good, using the same amount of the black walnuts as I do the English ones. Friends say they like the bread better than with the English nuts. By making it a little sweet the children like it better than a cake.

In making my cottage cheese, if just a little turned I set it in a pan of hot water. But if clabbered a little I put it on the back of the stove or near some kettle I am cooking in, (mine is an oil stove). I watch the whey and keep turning my dish of milk until all the whey is on top. I then put in cheesecloth sack and hang out doors, but not in the sun.—Mrs. M. W.



THE cold-pack method is the only satisfactory way of canning vegetables, and is also excellent for fruit. The various steps in this method are explained in our new canning bulletin.

It also explains how to can without sugar, the causes of flat-sour, and how to avoid it, and other canning difficulties.

For a copy of this buttetin send a stamped, self-addressed envelope to Martha Cole, Michigan Farmer, Desk A. Detroit, Michigan.

DON'T WASTE MELTED ICE CREAM.

OCCASIONALLY because of poor packing, or the lack of a sufficient amount of ice, some of the ice cream planned for the Sunday dinner or lunch melts. Do not throw this away. It can be transformed into a very delicious dessert, much like Bavarian cream.

Put the melted cream into a double boiler or set in a pan of hot water, and when luke-warm add one teaspoon of powdered gelatine, previously softened in a little cold water and dissolved in hot water, to each cup of melted cream. When thoroughly mixed, pour into wet moulds and set aside to become firm. When only partially cool, add fresh berries, diced fruit or nuts.

To make grape gelatine for lunch dissolve one-half box of gelatine in one cup of cold grape juice, let soften for five minutes. Put three cups of quickly, mark the size of the button- the grape juice in a sauce pan and add one cup of sugar, bring to a boil, pour over the softened gelatine. Cool and serve with whipped cream. Any frui tjuice map be used.

If unsalted fat is used in making ped with two drain boards. If there and then flour good. This will prevent pastry, salt should be added in the is room for only one, the left-hand the cake from sticking and is good for proportion of one-quarter teaspoonful of salt to one cup of flour.



Out Under God's Canopy these Women Are Greatly Interested in Studying Methods for Making Dishwashing Easier.

types of inexpensive trays may be purchased, or very satisfactory ones can be made by the home carpenter.

If an old-fashioned wash stand, with handles at each end, and a shelf underneath is among the family possessions, it can easily be fitted with small wheels or castors. The small drawer makes a splendid place for silverware. Where a wheeled tray is not available a fair-sized hand-tray can be used to use as fresh pieplant. very good advantage.

On fine china, or where children are scraping the dishes, a rubber dish scraper is invaluable. Every bit of food may be removed from the plate with the fewest possible motions. For cleaning the cream pan it has no equal. Some women like best the plan of rinsing off the food particles under or lard) running water in the sink. Where this is done a fine sink strainer should be used to prevent the food particles from getting into the drain.

a good cover is most 'convenient for waste food.

Plenty of water, both hot and cold, is another necessity that helps greatly cake.-Mrs. J. C. in making dishwashing easy. If this can be running water at the sink it is most convenient. If not, three or four trips to the stove must be made for hot water during the dish washing.

boards, makes the most practical place for washing dishes. A place for stacking dishes on one side, and for draining them on the other, increases the value of the sink, so many are equipboard is used most by the majority of making cup cakes.-M. M.

to believe the difference it makes in the amount of sugar required.

In canning rhubarb or pieplant, I wash stems well cut up without paring, pack into cans then turn cold water slowly into cans letting it overflow until no bubbles come to the surface, then seal. The neighbors used same process and we certainly enjoy the pies during winter; drain off water and

Sugar-saving Cake.

Half cup sugar One egg One teaspoon cinnamon One teaspoon soda Half cup molasses Half cup sour milk

Two tablespoons shortening (butter ·

One and one-half cups flour. Hot water can be used instead of

sour milk. Bake in two layers. Use jell or

A small garbage pail or a pan with marmalade for filling and spread thinly on top, then sprinkle with shredded cocoanut.

Makes pretty and good flavored Service with dip of whipped cream.

PASS IT ON.

To work buttonholes smoothly and The sink, when equipped with drain hole on the material with a soft pencil. After it is worked, cut open with a sharp penknife. This is especially helpful in working on serge or material that ravels easily.—C. D.

When baking cake grease your pans

Planning the Layette

sitated my obtaining consider able miscellaneous information con- The tent we were to use had served cerning a layette.

on the mother to prepare it, and is so quickly outgrown.

The money saved this way can be much more advantageously used for a skilful doctor and nurse, a two weeks' complete rest for the mother, and the advice of a food specialist for the about an hour and then hung up to baby's feeding if the mother is unable to successfully feed her baby. The baby's life and future health are too important to neglect giving him the best possible start.

Three of each of the following articles are necessary, four would be safer in case daily washing were delayed.

Flannel bands; shirts; pinning blankets; flannel skirts, "Gertrude" style; wrappers or nightgowns buttoning in black; stockings; bootees; warm jackets or sweaters; three dozen diapers, twenty-seven inches square, will be required; so will nainsook skirts and dresses; a cap; cloak; blankets; pads, and a small hot-water bottle.

Some points in baby's care I have been most watchful of.

No pacifiers or soothing syrups. Find the cause of its discomfort; warm water enemas offer wonderful relief for gas pain.

See that baby has at least one good bowel movement each day. The same rule for nursing mothers.

Regular feeding hours for baby. No excitement and unnecessary handling.

In changing and dressing baby I put him on a softly padded card table, slipping his skirts and dress up over

As scrupulous cleanliness as possible in the personal care of the baby; handling utensils for his feeding, and particularly the hands of whoever cares for him.-Mrs. G. C.

WATERPROOFING A TENT.

OF all the various ways of watercessful in my camping experiences putting in the bands.-Mrs. N. L.

MY three young sons have neces- was the one we used last year before our camping purposes for a number of I have always preferred a simple, seasons, and we decided something practical outfit, as it is less wearing must be done to it, if it were to see us through another trip.

I purchased one pound each of sugar of lead and alum. After thoroughly mixing them, I dissolved them in about one gallon of tepid water. In this solution, the tent was soaked for

Plans for Picnic Lunches

PICNICS are in season, big ones, medium ones, and small ones. But the zest of the occasion is lost if the lunch to satisfy the fresh air appetites is lacking.

The planning of that lunch is no small problem and we are ever anxious to exchange ideas. For the best letter giving suggestions and recipes for preparing a picnic lunch, we will give an aluminum preserving kettle. The second prize will be an aluminum serving tray, while the third, fourth and fifth prizes will be an aluminum saucepan.

Address your letters to Martha Cole, Michigan Farmer, Desk A, Detroit, Mich., before July 27.

dry. This process will make a tent thoroughly waterproof, mildew-proof, and even to a certain extent fireproof.

I save yards of elastic as well as a lot of work every year by sewing a hook and eye on each end of the elastic bands used in bloomers. These may be removed with each washing and one pair of elastics will do several pairs of bloomers. Finish the opening for the elastic like a button hole, and proofing a tent, the one most suc- insert a safety pin in the eye when



your Household Problems. Address your letters to Martha Cole, Michigan Farmer, Detroit, Michigan).

WANTS ADDRESS.

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Would some of the kind readers of the Michigan Farmer give me the address of someone who handbeads dresses? It certainly would be appreciated by a lonely one.—Miss Chloie Lemeron, Harris, Mich., Box 46.

At our Aid meeting, I am detailed to one-half cup of milk is added. bring a meat loaf, and as I have no recipe, I thought you could probably help me out. I would like a recipe that would serve about eight persons. Would you also send me a

About one and one-half or two pounds would be sufficient for eight people. To the ground meat, add one cup of bread crumbs into which has been stir- does not have the apparatus needed. red salt, pepper and butter the size of It is possible to buy the charged waan egg. Add a cup of milk with an egg beaten into it. Mix all together drinks, at a drug store, and add the

to them add one cup of bread crumbs, ing the charged water under pressure. 12c.

for one hour. This loaf is also appetizing served with the following sauce: One egg beaten lightly, two tableone egg peaten lightly, two tables waist included in 18-year size will require spoons melted butter, one tablespoon suit for an 18-year size will require spoons melted butter, one tablespoon 4½ yards of 40-inch material. The MEAT DISHES FOR THE AID DIN- and add the liquor. Pour this over for each pattern.

ICE CREAM SODA AT HOME.

I am anxious to know how farm For meat loaf, grind the steak or home. What water must be purchased cut of meat which you plan to use. for the "fizz," as the children call it? -Mrs. M. J. T.

The making of ice cream sodas at home is not very successful as one ter used also in making cool summer and press firmly into a loaf. Place in flavoring by stirring in the syrup and a buttered pan and roast for forty-five fruit with an egg beater, and then adminutes, basting three or four times. For salmon loaf, beat two eggs, and flavoring by stirring in the syrup and flavoring by stirring i

(Use this department to help solve two tablespoons of melted butter and our Household Problems, Address one can of salmon, saving the liquor. Add pepper and salt to taste, and after thoroughly mixing with a fork, press into loaf and steam in a buttered dish corn starch. After mixing, stir in one cup of scalded milk, cook a moment two yards. the loaf and serve. This recipe may also be baked instead of steamed if

"The Flour the Best Cooks Use" Our Guarantee

Just for Tonight".

We Guarantee you will like Lily White Flour, 'the flour the best cooks use' better than any flour you ever used for every re-quirement of home baking. If for any reason whatsoever you do not, your dealer will re-fund the purchase price. He is so instructed.

HOW TO MAKE MILK BREAD

FOR YOUR RINE PROTECTION

"Make Me a Child Again,

Can't you remember how wonderful a slice of bread tasted when you were a child? Maybe it was piled high with brown sugar! An in-between meal smack! Perhaps it was swimming in fresh maple syrup—the kind with the flavor running clear back to the tree.

Even now bread tastes just as good—if you use the Lily White flour in baking. Even when you were a child with your bread and butter after school, Lily White was satisfying thousands of the best cooks who knew what the

And through all these years Lily White quality has never

varied. Always high grade, always regarded as the very best for all baking Lily White today is a standard house-

hold necessity in many thousands of homes.

flour would do.

Three quarts of Lily White Flour, 3 pints of lukewarm milk, 1 cake of Fleischmann's yeast. Set in morning in warm place and rise until light. 3 teaspoons of salt, 1 tablespoon of sugar, 1 tablespoon of melted butter or lard. Mix with Lily White Flour until stiff, or from 20 to 25 minutes. Set in warm place and let rise until light. Make in loaves and work each loaf from six to eight minutes. Set in warm place until light. When light take warm milk and sugar and put over top. Keep good fire and bake slow one hour and when baked wash over again to make nice smooth brown crust.

Lily White will Surprise You -- Delightfully.

VALLEY CITY MILLING COMPANY GRAND RAPIDS, MICHIGAN "Millers for Sixty Years"

Michigan Farmer Pattern Service

wanted.

Send fifteen cents either in silver or stamps for our up-to-date spring and summer catalog, showing color plates, and containing 500 designs of ladies', misses' and children's patterns, a concise and comprehensive article on dressmaking, also some points for the needle (illustrating thirty of the various, simple stitches), all valuable hints to the home dressmaker.

No. 4393-4418—A Smart Suit Style.
Jacket 4393 cut in four sizes, 14, 16, 18 and 20 years. Skirt 4418 cut in seven sizes, 16, 18 and 20 years for

18 and 20 years. Skirt 4418 cut in seven sizes, 16, 18 and 20 years for misses, and 31, 33, 35 and 37 inches waist measure for ladies. To make the 41/8 yards of 40-inch material. The width of the skirt at the foot is about two yards. Two separate patterns, 12c



4409—Sleveless Dress

All orders for patterns and catalogs should be addressed to Pattern Department, Michigan Farmer, Detroit, 18-year size requires 41/4 yards of 32-mich., and be sure to state the size wanted.

Send fifteen cents either in silver



-Ladies' Dress. No. 4410en sizes, 34, 36, 38, 40, 42, 44 and 46 inches bust measure. A 38-inch size requires 41/8 yards of 40-inch material. The width at the foot is 21/4 yards.

No. 4416-Child's Dress. Cut in four sizes, 4, 6, 8 and 10 years. A six-year size requires 2¼ yards of 27-inch material. Price 12c.





No. 4399—Boys' Play Suit. Cut in four sizes, 2, 4, 6 and 8 years. A six-year size requires 25% yards of 27-inch material. Price 12c.



What the Postman Brought

Letters from Pals for Our Correspondence Corner

Some Youthful Experiences

By our Readers

Dear Uncle Frank:

My, o' me! What weather. But maybe I had not ought to complain, 'cause we sure needed rain. Besides, if it had not rained today I couldn't

if it had not rained today I couldn't have written. But since it did my folks went to town and I'm here alone with the children. Some task. I mean taking care of the children.

I took the baby up stairs to bed but he didn't go to sleep so I had to entertain him. I got out my boxes and dolls and—now, don't laugh—but he went to sleep with my smallest doll. He is the first boy I ever saw that took to dolls. Maybe you think I shouldn't play with dolls, but I do. I sew for the little girl's dolls, and also the neighbor girls' dolls. It is lots of fun. Just try it sometime.

I don't think girls ought to wear knickers. Dresses were made for

I don't think girls ought to wear knickers. Dresses were made for them. If a boy went down the street with a dress on, wouldn't women and girls think there was something wrong under his hat? I would. I would like to see your picture as you look now. I think most of the

you look now. I cousins would, too.

Don't you think it would be nice to have each one of the cousins tell how



Drawn by Wanda Chichy.

they are going to spend their vaca-

Now, dear waste basket, if Uncle Frank doesn't get this letter, will you please tell him about the suggestion

for vacations? Your niece, Mary Ethel Conner.

Another girl who needs rain to write. I hope we have lots of rain this summer. No, I don't think I'll try making dolls' dresses. I look the same as I did when I had the other picture taken-with two eyes.

Dear Uncle Frank:

Well, I suppose it is three times and out, as this is my third letter. The waste paper basket must have my other two. I think the motto, Work to Win, is a good one.

Say, Uncle Frank, you ought to see our dog. He will shake hands and lie down and roll over when we tell him to. We have a little calf and he plays with it most of the time. He opens

the door in the winter time.

Well, as my letter is getting long, will close. Your niece, Grace Lank, Leslie, Mich.

You have some dog. I, too, think "Work to Win" a good thing to follow.

Dear Uncle Frank:

May I enter your Merry Circle? I have tried in several of the contests but never won any prize. I like the Read and Win contests the best.

I graduated from the eighth grade

this month. I am going to the Mt. Pleasant High School this fall. My average for the state examination was ninety-three. I received the Bliss Al-

ger Scholarship in Isabella county. I calf, and a bird. I have one sister he was killed in the war.

I am, or will be, a senior in high school next term. My big brother to take a commercial course.

I will close with a riddle. As I was going to St. Ives I met a man with graduated this term and is going to

to take a commercial course.
Well, I must close and let the other boys and girls have room.
Good-bye. I hope to come again.
Ruth McShea, Rosebush, Mich., R. 2.

Congratulations on your good scholarship. I hope you will keep up your good school work. Sure, you may

come again.

Dear Uncle Frank:

I would like to join the Merry Circle. May I? I will tell you why I like the farm life. On the farm you can go to the woods and get flowers, nice fresh air, hear the birds sing, chase after the cows and chickens, feed the chickens, and have the farm and yard to wander in.

In the city or town you can't do anything like that.

I have for pets a dog named Trixy, two cats, five kittens, two pigs, one

By Violet Kimball, Reed City, Mich,

AWOKE with a startled scream

and sat bolt upright. Incessant

lightning played about my room,

making every object into a queer and

fantastic shape. I could discern two

ghastly figures at my window, while a

dull pounding came to my ears when-

ever the boom of thunder and snap-

ping and cracking of lightning abated.

The wind, coming in sudden, powerful

gusts, seemed about to lift the very

me from the window, where she and Dad were endeavoring to tack an old carpet to replace the glass, blown out

snapping and cracking, the booming

and shrieking, the blowing and falling,

went on. At any moment, might not

a single flash of lightning end our ex-

istence as in the wink of an eye?

Might not a powerful sweep of the

Down by the Brook, Just a Fishin' an' a Fishin'.

house from its foundation.

by a sudden, whirling eddy,

I will close with a riddle. As I was going to St. Ives I met a man with seven wives. Each wife had a kid, each kid had a sack, each sack had a kitten. How many were going to St. Ives? I hope my letter does not go to the waste paper basket. Lorene Copeland, Sherwood, Mich.

We will be glad to have you in our Merry Circle. You must first answer a contest correctly and neatly to get a Merry Circle button and membership card. I agree with you about the farm. It is a fine place to live.

Dear Uncle Frank:
My brother and I have been trying to get the beets thinned before the Fourth. Guess we won't though. There has been plenty of rain. I started to write you a letter a year ago—don't you think it took me a long time to write it? I had an Uncle Frank but

wind carry us away to our death? The earth and sky seemed to be engaged

in a furious battle of shrieks and

moans. The war ended at daybreak.

What havoc met our eyes! A chimney

and a porch gone, the barn doors off,

the corn crib blown over, and our best

and most faithful fruit trees shame-

fully destroyed! The woods were

piled with brush and many a tree bore

lightning scars. Nor were we the only

college. Our schoolhouse burned a year ago

last April and since then we have been attending church regularly every day.

I think the new school building will be ready for us by next fall. Gee, but it was hard trying to study in that church when there were three sitting in a seat.

in a seat.

I do believe the teachers had a hard time attempting to teach us under such conditions. Of course, it was a hard thing for us to sit still and study like we do in church, every day, at that. There are no girls' or boys' clubs around here. I wish there were.

Hope you'll have a good time on the Fourth. Your niece, (if accepted), Anna Seidel, Coleman, Mich.

It certainly takes you a long time to



Drawn by Eno Niemels.

write a letter. To go to school in church must be rather inconvenient, but perhaps you will more fully appreciate your new school. Come again soon.

sufferers, for many fared far worse. To this day, I tremble in anxious

fear whenever the elements begin Mother's reassuring voice came to their dizzy dance around our isolated farm house.

By Marion E. Shaw, Armada, Mich.

The worst thing I ever heard of happened here last Sunday, when our neighbor boy met with his untimely self. I have no brothers. My sister I lay in a frenzy of terror while the pened here last Sunday, when our death.

> It was caused by the carelessness of the electric company.

The boys had been climbing the towers which run from Marysville to as long as you live up to your member-Pontiac. Last Sunday our neighbor ship card. You and your sister must boy climbed the tower. He happened be regular farmerettes. Come again to reach out his hand and the current soon. drew it on to the wire. He fell from the ninety-foot tower, hitting the tow-

er all the way to the bottom. The results were too terrible to tell here.

I understand it is the state law that the company shall have the danger signs on the towers as soon as the current is turned on. There were no way to the bottom. The results and the state law that the company shall have the danger members would write to me, and I promise to answer all letters. current is turned on. There were no My brother and I belong to a poulsigns on the towers. The boy would try club and we received fifty White Leghorn chicks about two weeks ago, and only two are dead. I think we sign. No one knew the current was turned on.

It is not the prize I want, but it was so terrible I do want to warn companies not to so carelessly neglect their duty when life is in danger. I also want to warn boys and girls never to go near the electric towers at any time.

Dear Uncle Frank:
Thank you for the Merry Circle button and membership card. One evening on my way from school I lost

and I drive horses in haying time. Together we get ten cents for every load. Your niece, Juella Brower, M. C., Hamilton, Mich., R. 3.

Yes, you are still a Merry Circler

Dear Uncle Frank:

are having pretty good luck, don't you Uncle Frank?

I belonged to three different clubs in the past three years. The first year I belonged to a hot lunch club, the second to a sewing club, and the third to a poultry club.

I think that clubs are doing country boys and girls a lot of good.

Your niece, Eloise Hartley, M. C., Iron River, Mich.

I am glad to hear you and your It is the life we live, the good we brother are such active club members. do, and the beauty we see, that re- Hope you have the best of success veals the silver fining of each dark with your chickens. Let us hear about them later.

Earning My First Money

money that you boys and girls told me about in the contest this week, I would be quite rich. Anyhow, the letters were all very interesting, and I am sorry I haven't space to print them all. The others will appear later-Following are winners this week:

Pencil Boxes. Ethelyn Sprecksel, McBain, Mich. Lewis Mulka, Metz, Mich.

Pencils.

Helen Lardie, Garnet, Mich.
Alta Swinehart, Edwardsburg, Mich.,
Doris Badger, Sherwood, Mich., R. 3.
Maps.

Milo Chew, Bay Shore, Mich. Ruth Howd, Breckenridge, Mich., Mary Cogley, Emmet, Mich., R. 2. Zetta Graves, Billings, Mich. Warren Bachelor, Farmington, Mich.

By Ethelyn Sprecksel, McBain, Mich. The first money that I ever really earned myself that amounted to anything, was one summer when my father had a lot of beans which needed to be picked over before they could be sold. Father told me if I would pick them over he would pay me the regular price that other people were getting for doing the same.

I think I will always remember that Saturday night when father gave me of the peach crop this year?

F I tried all the ways of earning my first truly earned money. With this money I bought me things which I needed and wanted. I seem to enjoy anything I can earn and know is mine in every sense, more than others.

Read and Win

THIS week we are going to have another Read-and-Win Contest. Be sure to write your name neatly, give short answers, and page upon which the answers are found:

1. Who have raised an advertising fund to develop a permanent market for Michigan fruit in Milwaukee?

2. Why does it pay to breed rapidly feathering birds?
3. How many head of cattle are British buyers planning to import from Canada?

4. What saves the most stops in

4. What saves the most steps in dishwashing? 5. From where did the white pine blister come?

6. What contribution has M. A. C. plant breeders made to Michigan agriculture?

7. What is Alopecia Areata? 8. Whose slogan is—"Take it with a pinch of salt?

9. How much Sudan grass should be sown per acre?

10. What is the decrease in per cent

They Produce Superior Products

(Continued from page 49).

terests of their customers, have been ings at each of its elevators so farmers might learn of the merit of certified seed. The company then held such seed in stock for its farmers. The Clare Elevator Company, and other local elevators have followed the same practice.

A great many of the cooperative elewith the Seed Department of the Michigan State Farm Bureau for continued supplies of association seeds. The Farm Bureau seed department occupies the position of the largest wholesaler of this seed and it has been selling nearly half of the association's product. Its service extends all over established with many out-of-state or-

seed department has been on the basis of certified seed pools conducted by that organization. These pools have definite closing dates established and the many certified seed growers who have taken that way of marketing their product have received excellent service. Every one of the five pools conducted thus far have been entirely

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of the purchase price.

because buyers have found this seed profits. profitable. While prices are above the commercial market, usually an increased yield of only a bushel will pay splendid returns on the added investment and in most instances this added yield, several times over. From re- differently than we did-last year.

In many cases the leadership comes ports secured from Wolverine oat from the elevators themselves. Wide- growers all over the state it was found awake concerns, cooperative or other- that the increased productivity of this wise, which really serve the best in- certified seed over the oats in common use was nearly fifteen bushels per anxious to get certified seed into their acre, which at forty cents per bushel, communities because of the attendant paid for added acre seed costs about benefit to those who used it. The six times over, while users of certified Michigan Bean Company called meet- Robust beans increased their profits by from \$10 to \$40 per acre.

Certified seed growers themselves have a double profit in their venture. They benefit from the increased productivity of the seed and they are paid for the quality of their product. In most cases the price received nets the certified seed grower twenty to eighty vators have established relationship per cent more than the ordinary local market. Growers are finding no difficulty in moving their seed. In fact, demands for nearly all certified varieties have been greater than the supply and more than 50,000 bushels of the various seed grains were sold durterial. Price 12c. ing the past season. This condition, along with the promised establishment Michigan and permanent relations are of a Hardigan alfalfa seed industry in the state warrants a substantial growth in the number of seed-produc-Selling through the Farm Bureau ing members of the association.

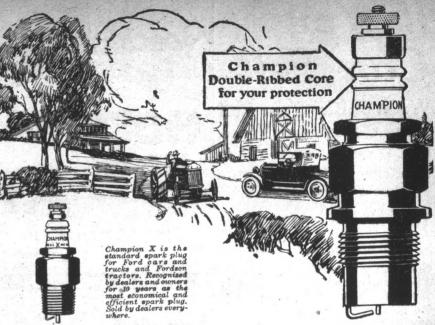
The work of this organization is not only making a better market for seed, but is a potent influence in bringing about more satisfactory markets for general crops. Communities such as the one at Fairgrove, are standardizing on varieties which come from certified seed. Grain buyers like to do sold out, yielding to consigners a very good margin over ordinary seed prices.

Another important element in efficient marketing of any product is the following up, or sponsoring of that product till it reaches the consumer.

Business in such places. Quality crops bring premiums as well as do quality sizes, 6, 8, 10 and 12 years. A 10-year size requires 2% yards of 36-inch material. Price 12c.

No. 4251—Girls' Dress. Cut in four sizes, 6, 8, 10 and 12 years. A 10-year size requires 2% yards of 36-inch material. Price 12c. business in such places. Quality crops Michigan Crop Improvement Associa- duction of a standard quality product, tion seeds carry a substantial guaran- a vigorous marketing policy controlled tee. The thorough and rigid inspec- by the same organization, proper foltion makes this guarantee possible, low-up or guarantee of the product, and every grower is pledged to stand and legitimate stimulation of demand back of his product to the full extent by calling the consumer's attention to its superior value, in these principles The demand for certified seed grows surely lies one route to greater crops

Our bodies are constantly changing, our nails grow, our hair grows. Scientists tell us we have an entire new body once in seven years. If our minds cost is returned, by the increased are active we will be able to see things



Champion Guarantee A Pledge of Better Service

The guarantee which appears on the carton containing each Champion Spark Plug is a definite pledge of the better service that is rendered by Champions.

Only because Champion is a better spark plug is such a guarantee possible.

Champion is better because of its wonderful new core - identified by the Double-Rib. This core has proved its superiority in literally millions of gasoline engines, including motor cars, trucks, tractors and stationary.

This core stands extreme changes in temperature without yielding. It is practically immune to breakage. It never loses its insulating properties.

A full set of new Champions will save you money, both in first cost and in gasoline and oil consumption. Because more than 65 per cent of all spark plugs made are Champions, the price of the Blue Box Line is 75 cents and 60 cents for Champion X.

Champion Spark Plug Company, Toledo, Ohio Champion Spark Plug Company of Canada, Limited, Windsor, Ontario

Dependable for Every Engine



Tub Frocks for Little Tots

MICHIGAN FARMER PATTERNS.

No. 4413—Juniors' Dress. Cut in three sizes, 12, 14 and 16 years. To make as illustrated requires two yards



No. 4251-Girls' Dress. Cut in four



No. 4417—Child's Dress. Cut in four sizes, 4, 6, 8 and 10 years. An eight-year size requires 2¾ yards of 27-inch material. Price 12c.





No. 4414—Girls' Dress. Cut in four sizes, 6, 8, 10 and 12 years. A 10-year size requires 3½ yards of 32-inch material. Price 12c.

No. 4415—A Comfortable "Smock."

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b

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New is your opportunity to buy laying and breeding stock for next season.

Weeks Pullets—White and Brown Leghorns, Anconas, Barred Rocks. These Pullets are all grown from care-fully built up laying flocks. They will lay this fall and whiter.

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All stock is guaranteed to be satisfactory to you.

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Hatch of July 19th \$13 per 100; \$7 per 50; \$3.75 per 25.
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Also Black Leghorns, Brown Leghorns, Buff Leghorns, Black Minorcas, B-O-Bhode Island Reds,
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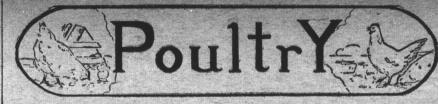
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W. VAN APPLEDORN, R. No. 7, Holland, Mich.



BROODY HENS NEED CARE.

A T this season it pays to inspect the nest every night at sundown and confine all the brooder hens. If found the first night they can usually be broken up in about three days. If they waste time setting in the hot hen house they injure the eggs laid by the other hens, and also become reduced in flesh and vigor so their return to laying condition is delayed.

Experiments prove that good treatment of broody hens is the most profitable. Starving and frightening them is not good management. They need plenty of fresh cool water and about the same feed they would have for heavy laying. A broody coop with a slatted bottom will break up hens quicker than a brood coop or a shipping coop where the broody hen is often able to build some resemblance to a nest on the ground. The slatted broody coop can be suspended in the cool shade of a tree if the poultry house is too hot in summer.

It is cruel to keep a mother hen in a brood coop with black roofing paper on top if the coop is without shade during the heat of the day. These small brood coops become very hot. and too often the hens are neglected or given drinking water in small dishes that are propmtly tipped over, leaving the hen to go thirsty the remainder of the day. Metal brood coops are regular bake ovens when left in the sun.

It seems that the moult can be delayed with many hens if they are given a cool ventilated henhouse and plenty of shade on the range. The open front house with the door open during the day is usually cool enough. But houses covered with black roofing paper must have considerable circulation of air or the hens are devitalized. Plenty of shade on the range can be supplied with fruit trees, corn, sunflowers or an evergreen hedge. Colony houses raised from the ground will furnish a few square feet of cool earth where young birds can dust.-Kirby,

SELL OLD HENS AS THEY ARE.

OLD hens of the heavy breeds are in great demand at this season for Sunday dinners. A good six-pound hen makes a family dinner, with portions left for Monday. I do not think that such hens need any fattening. Often they become too fat to be appetizing. Most people like to buy a plump, healthy, smooth chicken, but not one that is rolling in lumps of fat.

STUDY BROILER PRICES.

T pays to study the market before selling broilers. A difference of five cents per pound means ten to fifteen cents per bird. That is \$10 or \$15 on a hundred birds. The \$10 or \$15 may be a large part or all of the profit. There is quite a variation in the prices paid by different dealers for broil-Why? ers and because they are a surplus product is no reason for sacrificing them.

CLEAN UP BROODERS.

A S soon as the fires are out all the brooders should be cleaned and removed to a dry store room. If the stoves are left in the dirt they soon rust and their life is reduced. Wipe the metal parts with a rag moistened with machine oil. It will place a film of oil between the iron and the air and

keep the stove from rusting. Gather up all the small fountains and feeding dishes and place them in their storage box. It will save digging in the snow for the utensils when the early chicks come out next spring.

SELECT COCKERELS THAT GROW RAPIDLY.

WATCH for the young cockerels that develop rapidly and crow at an early age. They feather rapidly and show all the marks of vigor. Such birds will help in producing early-maturing pullets next year, and they are the type of pullets that produce fall and winter eggs.

It pays to breed from rapidly feathering birds as it saves brooder fuel in the spring. I find that chicks can stand quite a little cold when they are about feathered out. The slow feathering members of a flock are easily chilled and stunted and make it necessary to keep the brooder fires going for a long time.—R.

FEED CONFINED FOWLS GREEN FEED NOW.

F the hens are in yards or on a dried-up range they need green food the same as in winter. A row of Swiss chard on well fertilized soil will produce an abundance of large succulent leaves. It takes only a minute to gather a bushel of this green feed and it will help in stimulating egg produc-

PREPARE FEED FOR NEXT WIN-TER.

WEEDING and thinning the mangels is profitable work for a poultryman. They are fine for laying hens in winter and cheaper than sprouted oats. Fine chopped mangels will be a fine source of succulent green feed for the baby chicks in the brooder houses next spring.

All the green feed we can raise for the poultry will prove useful because health and vigor are just as essential to hens as concentrated rations to force egg production. The bulky green feed helps to prevent digestive disorders and enables the flock to produce more hatchable eggs for early spring incubation.

WATCH FOR MOULDY FEED.

A S last year's supply of grain begins to run out be sure that no spoiled wheat or corn is given to the flock. This results in ptomaine poisoning. It may cause serious losses before the danger is realized. A dead hen or rat on the range may cause several losses. If a bird is buried near a poultry range it should be placed deep enough for safety. Dogs have an unpleasant habit of locating a buried chicken and starting excavations on the tomb, which have no historical value.

When in doubt as to the purity of poultry feed, it is always best not to use it. This applies to mouldy bread, grain that has been soaked and become sour, or milk that seems to be not just sour, but decayed.

The world continues to move on. So do the years. To keep up we must keep going. If we stop we lose so much from life. And when we get going again, if we ever do, we will be lagging behind our proper place in the procession.

John, the Apostle

Our Weekly Sermon-By N. A. McCune

ture said some years ago that books written about it than any other piece of writing.

The author of this book was unever went through a greater change of character. With his brother, James, he was in the fishing trade, when he heard the call to be a follower of the hot, lightening variety. Christ nicknamed the brothers, "Sons of Thun-

Samaritains were rude and insulting toward them. Instantly James and John cried out, "Shall we call down fire from heaven, and consume them?"

They were ambitious, too. They had knew suckers from trout. They prob-

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But all this passed away, with John's conversion. Whether his conversion was sudden and powerful or But it took place somehow, that is cerard, and was engaged in the slave trade, the last man on earth that one would suspect of becoming noted for his holiness. Yet such was the case, and Newton became one of the best hymn writers in the English language. His hymns, "Safely through another week God has brought us on our way," and "Glorious things of thee are spoken, Zion, city of our God; He whose word cannot be broken formed thee for his own abode," are in almost every church hymnal.

Peter was known for his activity and zeal, but John for his spirit of love. He became known as the beloved disciple. At the last supper and at the cross he appears as one of the central figures. He might have written the thirteenth of First Corinthians, for when that famous chapter states that "the greatest of these is love," it is expressing what John lived.

In the gospel of John we have what years to get there if the roads were is unquestionably the record of an good. eye witness. It is also the record of an old man, written long after the miles from the earth. It is but a star events had taken place, events that like these others. Perhaps these other had been indelibly impressed on the stars are also suns to little planets memory. Little things are explained, like the earth, that constantly revolve or are stated with particular care; around them. things which ordinarily would not be The earth is twenty-five thousand boastful, bigoted self is chiefly im-

church in Ephesus for many years. He yet the world moves on without a wrote the First Epistle of John as a ripple. How insignificant is man as ness. It applies to everything. Noth-Carewell letter to this church. There he plays his infinitesimal part in the is a legend of his last days, how, too eternal plan of the universe. feeble to work, he was carried into the Ordinarily we do not seem to ap- going on, even in us.

PROFESSOR of English litera- nothing else was needed for happiness.

"He that loveth not, knoweth not the gospel of John had had more God, for God is love," says the Epistle. These words sound almost too simple for serious minded men and women of the world to consider. But suppose doubtedly John the apostle. No man the people of influence and affairs did consider them. Suppose they actually set out to practice them. How long would there be cliques and "sets" in society? How long would some people Galilean. His temperament was of the go about disappointed and embittered because they cannot get into some forms of society? "Peace is good, say der," and there was good reason for it. the militarists, but we must prepare One day the little band of men was for war; we must keep on spending passing through Samaria, and some our millions for defense against an imaginary enemy."

But there would be no preparations against future enemies, under the books now talked about will be read regime which John commends. "Little nineteen hundred years from now? alluding, of course, to what Elijah had children, love one another." Small But John's books have interested the towns would cease to have factions which may be counted on to pull an eye for the main chance. They against each other. A sound basis they do now. would be reached, whereby good will

A man once got off the train in a teristic, for one village and found the streets filled day their mother with people who appeared to be excitmade a particular ed. The stranger asked an old man request of the what it meant and was told that the Master, to the ef- whole village had turned out against a fect that her sons mad dog, and the old man added, "I've might sit on his lived here thirty years, and it's the right hand and first time I ever knew the town to be his left, in his kingdom-be secretary united on anything." Some towns need of state and secretary of war, as it more mad dogs. But St. John's motto would be a more lasting program of

It is certain that the apostle lived to a very advanced age. It is supposed was slow and quiet, we are not told. that he remained in Jerusalem until the Virgin Mary died. (It will be retain. There is that in John which re- membered that he took her to his minds us of another John—John New- home, after Christ's death on the ton. This man was an English drunk- cross). After that he went here and there evangelizing. The tradition is,

that once he was flung into a cauldron of boiling oil, but came out unharmed.

Probably while living at Ephesus he was exiled to the island of Patmos, and then wrote Revelation. It was his prison. Revelation is a book, as it were, from behind prison bars.

The world has been blest with prison literature. Pilgrim's Progress was written in prison and some of Madam Guyon's songs. But the finest and greatest of all prison literature is the Book of Revelation.

OHN was a man of brain power. This is likely to be forgotten because of the emphasis on his goodness and gentleness. But great books do not grow on raspberry bushes, no matter how much is paid for the bushes. And John's gospel, Revelation, and his First Epistle are great books.

No modern "best seller" can compare with them. How many of the world for that length of time, and never commanded more attention than

Take one or two expressions from ably came honest- would prevail in society everywhere. them: "Thou art worthy, O Lord, to receive glory and honor and power; for thou has created all things, and for thy pleasure they are and were created." "And I saw the dead, small and great, stand before God; and the books were opened: and another book was opened, which is the book of life: and the dead were judged out of those things which were written in the books, according to their works."

> SUNDAY SCHOOL LESSON FOR JULY 22 .

SUBJECT:-John the Apostle-Mark 1:16 to 20, 3:17; Luke 9:49 to 56; John 13:21 to 25; Acts 4:13 to 29; John 4:7,8, and Rev. 1:9.

GOLDEN TEXT: God is love, and he that abideth in love abideth in God, and God abideth in him.—I John

love to do so occasionally, for thereby overwork and worry. We rob our we find abundant play for the imagi-

The Planet Saturn, with her brilliant rings, shown brightly down upon around on the surface of the earth like She is approximately seven hundred million miles away at this writing. We think we drive long distances and fast, in our flivvers, but we would no doubt want someone to spell us at the wheel, if we were bound for Saturn, as it would take ten thousand

The sun is only ninety-three million

We ourselves are scarcely perceptible. duties and tasks that await him. John was the guiding spirit of the We are here today, gone tomorrow,

midst of his friends, and repeated over preciate the situation. We go about and over, "Little children, love one an- our work as if the success of the world said this and no more, to which he re- and our attention so close to the plied, that if they loved each other ground that we fail to see ourselves

7 E went out on the lawn last and our farms in their true relation night, the little girl and I, to to the world at large. We make ourtake a look at the stars. We selves and our families miserable from soils, we find fault with our neighbors, we get blue and despondent, we grumble and complain. We scramble flees on an elephant's back, and imagine we are cutting quite a swath. It must be amusing to the Creator to see us swell up with self-importance and

To him who finds pleasure in the contemplation of Nature in all her magnitude, there is a certain release from the weight of daily cares, and a feeling of content that comes from thoughts of the great universe, the age-old earth, and its varied inhabitants.

He can the better realize his very minute proportions, and that his noticed. Over and over the words go miles around; three-fourths of it is portant to himself alone. A better on to say that some event took place water; a tiny fraction of its surface understanding of his relation to the which could not possibly have been is Michigan; our farms are but specks, world can but give a right attitude toknown, but by some one who was yet they endure to the end of time. ward life, and new strength for the

> Growth is the regular order of busiing remains stationary. It grows or decays. There is a constant change

Rarely do potatoes sprayed with other." Some one asked him why he depended upon us. We fix our eyes Bordeaux mixture to kill the hopperburn fail to repay it many times over.



THE "powerful compression" Automatic-feed of the 1923 Papec takes the place of an extra man at the feeding table. It handles heavy corn and crooked stalks. It will cut your silo-filling cost and enable you to fill with a

No more heaving and pushing—no more "riding the bundles" with the Papec—use your extra man to throw bundles from the wagon you won't need him at the feed table.

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AND BLOWS

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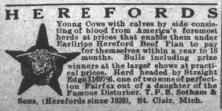
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Milking Shorthorns priced reasonably. An accredited herd selected for beef and milk. Beland and Beland, Tecumseh, Michigan

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few Pathfinder Gil -Jersevs Duroc Jerseys Bred to a good son of Foust's Top Col., E D. Heydenberk. Wayland, Mich

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e stock AND DAIRY

BUSINESS EXPANDS RAPIDLY.

L AST year at this time the Standish creamery was taking in 18,000 pounds of milk per day. This year the concern is purchasing 41,000 pounds of milk per day. This year manager is without doubt the cause of much of this development, he declares that the introduction of pure-bred stock in that community is responsible for from twenty-five to fifty per cent of the increase. The Standish chamber of commerce has sponsored the "Better Dairy Cattle Movement" in an effort to increase the general prosperity of the community. Where the dairy cow does well, everyone profits, and Standish appears to be on the road to become "one of the best little dairy communities in the state."

WATCHING THE OTHER FELLOW DO IT.

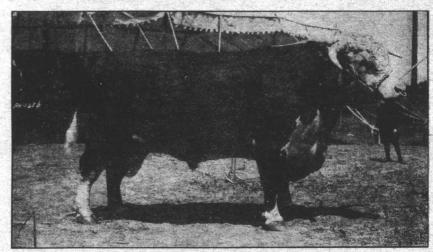
WENTY-FIVE

ed with the number saved during the same period last year, is indicated by the third semi-annual pig count made by the United States Department of Agriculture, reports having been received from over 140,000 hog raisers throughout the country.

An intention to breed 28.3 per cent more sows for fall pigs than farrowed last autumn is indicated by the returns. For the corn belt states the increase is indicated at 25.5 per cent. In the North Atlantic states, including Pennsylvania, the increase is 42.6 per cent. In Michigan the increase is thirty-two per cent; in Ohio, twenty-three per cent; Indiana, twenty per cent; Illinois, twenty-two per cent; Wisconsin, twenty-four per cent, and Iowa twelve per cent.

NOW SHIP TO ENGLAND.

C ANADIAN farmers are shipping their stocker and feeder cattle to Midland county England, according to reports received Twenty-Five Midland county by the American Farm Bureau Federentire family in their cars for a tour ation. These cattle were formerly of Bay, Saginaw and Midland countres shipped to the United States to be fat-



Searchlight, the Leader of the L. Whitney Watkins Hereford Herd, was Secured at a Long Price, and will be One of the Animals the Hereford Enthusiasts will Inspect on the Hike From July 24 to 27.

on June 27, in the interest of better tened on our pastures and corn, proited the farms of George Bergtold, Frank Trombley, James Wilder, T. F. study of dairy methods and dairy-cow Jim Hayes and County Agent McMurend and injected into the entire outing a high degree of enthusiasm by their peppy speeches.

SWEARS BY SWEET CLOVER.

ONE mile from Midland lives Fred Sias. He deserves a place in the hall of fame. During the spring he pastured fifty-seven head of four-yearold steers on twenty-five acres of biennial sweet clover, and his grain supplement has only been 400 pounds per

the ground. The steers will be marketed this month. Experts say they are contenders for market top honors. "Don't try to make steers eat tough clover after it has weathered the better part of the spring," is Mr. Sias' sage advice.

PIG CROP SLIGHTLY LARGER THAN LAST YEAR.

months ended June 1, 1923, as compar- Farm Crops Department.

dairying and alfalfa raising. They vis- viding a profitable business on many farms in Pennsylvania and the corn belt states, but this trade has been Marston, and George J. Hicks, for a greatly hindered by the two cents a pound duty carried in the new tariff types. Rain in the afternoon did not law, against which the American dampen the ardor of these tourists. Farm Bureau Federation, the Pennsylvania Farm Bureau and Illinois Agritry followed the tour through to the cultural Society vigorously protested.

It is stated that 10,000 head of cattle have already been shipped and that before September 1, 50,000 head additional will be shipped to England. British buyers are planning to import 200,-000 head of cattle from Canada. Exporting of cattle on the hoof from the United States to Europe ceased years ago, and it is a new experience for Canada.

SUGGESTS SUDAN GRASS.

Mr. Sias put the steers on the clover as soon as it first poked its head above the ground. The steers will be mar-

Sudan grass is one of the best annual crops for summer pasture. Hungarian millet is well adapted to muck but is not as good a pasture crop as Sudan, due to the fact that the root system is not as large and consequently is more likely to be pulled up from the ground in grazing.

Sudan grass should be sown at the rate of from twenty to twenty-five A N increase of nine-tenths of one pounds of seed per acre, and usually per cent in the number of pigs provides pasture until killed by heavy saved from farrowings in the six frost during the fall.-C. R. Megee,

HOLSTEIN TOURS.

THE dates for the tours arranged by the State Holstein Association, cooperating with the Dairy Department of the Michigan Agricultural College, and the county agents and local Holstein breeders in the several counties, are as follows:

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July 23—Macomb.
July 24—Washtenaw.
July 25—Wayne.
July 26—Monroe.
July 28—Ingham.
July 30—Eaton.
July 31—Hillsdale.

Aug. 1—Lenawee. Aug. 2—Oakland. Aug. Aug. 3—Livingston. July 31—Jackson.

Aug. 2-Calhoun. Aug. 3—Allegan. 4—Ottawa. 7—Gratiot.

Aug. 8—Saginaw 9-Tuscola. Aug. Aug. 10—Sanilac. 7—Shiawassee.

Aug.

Aug. 8-Clinton.

Aug. 9—Ionia.
Aug. 10—Kent.
Aug. 11—Genesee—Grand Round-up at farm of D. D. Aitken, ex-president National Holstein Association.

Grand Traverse county on the modity this remefied accredited area list. This will be should give it. the fifth county in the state having less than one-half per cent of the cattle tubercular.

SOUR MILK.

Have been having trouble with milk souring after it was cooled. On inquiry at the station where we deliver the milk, was told that some cows were known to give sour milk from one quarter. Is this true? If so, what remedy for it?—V. D.

We never heard of anything of this sort before. It is true that some lactic acid bacteria sometimes will enter the lower portion of the milk duct in the end of the teat and possibly a drop or two might become sour. Owing to this fact, in dairies where "certified milk" is produced it is a practice to milk out just a little of the milk before saving any of it. This is not con- CONCRETE STAVE sidered necessary for ordinary milk, even that produced and known as market milk, though it would be a good plan, especially in hot weather.

It is the lactic acid bacteria that cause milk to sour. If you can keep them out the milk will keep sweet; however, it is practically impossible to keep them all out, even certified milk is allowed to have ten thousand per cubic centimeter.

The milk should be produced as clean as possible and cooled at once, the lower the better, but at least as cool as well water. While it is cooling it should be stirred so the whole mass will be of the same temperature, otherwise it will cool around the outback. \$1 Pkg. sufficient for ordinary cases.

MINERAL REMEDY CO. 463 Fourth Ave., Pittsburgh, Pa side and the center of the can will be warm and afterwards, mixing with the outside, will sour the whole of it. After the milk is cooled it should be kept cool and not allowed to warm up again.

Milk must be given some little attention in hot weather to keep it suitable for market milk or for the condensary.-C.

Veterinary.

CONDUCTED BY DR. W. C. FAIR.

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

Nervous Horse—Poor Circulation.—A naturally nervous horse fifteen years old was cast some 18 months ago and while the veterinary was doing some dental work on him, he struggled much. For two weeks he was stiff and sore; now he is seemingly well, but the veins stand out very prominent on several parts of body. Does this indicate heart, or internal trouble? G. W. G. Rapid City, Mich.—If he is fleshy, reduce him. It will benefit him to do light work. Give him a teaspoonful of acetate of potash in feed or in drinking water twice a day.

Indigestion.—Our sows seem to have stomach trouble. They bloat, this causes their heart to flutter. M. K., Milford, Mich.—Mix equal parts of ginger, gentian, baking soda, salt, powdered wood charcoal together, and give each sow a teaspoonful at a dose in feed two or-three times a day.

TUBERCUOSIS WORK CONTINUES.

There are now twenty-two veterinarians working to free Wayne county herds of tuberculosis. When this work first started Wayne county cows were twelve per cent infected. The re-tests show that this has now been cut to four per cent. Another test will probably be necessary to weed out the bulk of the remaining diseased animals. There were 17,360 cattle in the 1,742 herds tested; 711 reactors were found in the 362 infected premises. Another force of veterinarians are starting in Grand Traverse county to make a re-test. The last test there showed only 1.28 per cent of the cattle infected. It is expected that the present test will place Grand Traverse county on the modified accredited area list. This will be the fifth county in the state having

The Standard for a Generation

A FTER a generation of service many Indianas are in perfect condition. They keep feed without rot or spoilage better than any other silo made.

better than any other suo made.
Big scale production at a narrow profit gives the farmer the largest possible value for his dollar. Corn is late. You have still time to get an Indiana up this year. Write now.

Agents—Get in touch with us today.

THE INDIANA SILO AND TRACTOR CO.

TRACTOR CO.
Dept. 47 Anderson, Indiana



Write for our Free Silo Book. Tells how we build them for you from the ground yn from the ground yn Our perfectly processed concrete staves give you construction that lasts forever, yet costs no more than wood stave silos. Fire and wind resisting. No painting, no guy wires. No tightening of hoops. Keeps silage fresh and sweet. Unequalled for cold climates. Write for illustrated fact-proving catalog. MICHIGAN SILO CO., General Offices, Kalamazoo, Mich., Factories at Kalamazoo, Mich., Peoria, III., Bloomfield, Ind.



Write today for free in-struction book and "Record of Invention" blank. Send sketch or model for per-onal opinion.

CLARENCE O'BRIEN, REGISTERED PATENT LAWYER, 952 Southern Bldg., Washington, D C

HORSES

For Sale Registered Percheron stallion six years next November. Kind and well broken Cheap if taken at once. Geo, Earle, Middeville, Mich.

WANTED

We are in the market for

Railroad Ties

Write, call on or phone

McCandless Bros.

9-253 General Motors Bldg.

Phone Empire 6845

DETROIT, MICHIGAN



ARE YOUR COWS Losing Their Calves From Abortion? You Can Stop Them Yourself AT SMALL COST

At SMALL COST

Ask for FREE copy of "The Cattle Specialist," our cattle paper. Answers all questions asked during the past thirty years about abortion in cows. Also let us tell you how to get the "Practical Home Veterinarian", a Live Stock Doctor Book, without cost. Veterinary advice FREE. Write tonight, A postal will do.

Dr. David Roberts Veterinary Co., Inc., 153 Grand Ave., Waukesha, Wis.



Better Silos-Bigger Profits

The Prosperous Farmer today is the one who is milking cows and feeding stock. Good silage is the most economical feed for livestock and dairy cows. It cuts down cost of production and yields greater profits. World's Standard Kalamazoo Silos make 100 per cent perfect silage.

Our Glazed Tile Silos are built of moisture-prof Our Wood Stave Silos have air-tight joints, glazed tile. Blocks have three dead air spaces—resist heat, cold, moisture, vermin, will not burn. No paint, no repairs. Will not warp, decay or blow down.

Last a lifetime.

Modern, permanent, beautiful, economical buildings for your farm. Free information on how to judge tile and how to plan your new buildings. Write today.

KALAMAZOO TANK & SILO CO., Dept. 223 Kalamazoo, Mich.



Mr. L. Whitney Watkins

Requests the honor of your presence at WATKINS FARM Near Manchester, Michigan

Near Manchester, Michigan
on Thursday, July 26th, 1923

10:30 A. M. RECEPTION; Michigan Hereford
Cattle Breeder's Ass'n. and visiting Farmers.
12:00 Noon LUNCHEON Barbecued Hereford
Baby Beef.

1:30 P.M. AUCTION; 1st Annual Watkins Farm
Sale of 63 HEREFORD CATTLE.

45 Lots (18 calves presented free with their dams)-5
Bulls including an excellent son of the King of Hereford Sires Perfection Fairfax, and another out of a
great daughter of Beau Mischief, 40 Cows and
Helfers. All the best Hereford blood represented.
First Class individuals. Prices are sure to be low
in keeping with present farm conditions. Sale under
cover rain or shine. For Illustrated Catalog, address.

T. E. R. SOTHAM & Sons. Sale Mgr's.

T. F. B. SOTHAM & Sons, Sale Mgr's. ST. CLAIR, MICHIGAN

HOGS

FOR SALE, One extra good registered yearling Chester White boar Pigs 3 months old, \$15. Foundation stock procured from Benjamin. JOHN KENNEDY, Alamo, Mich.

CHESTER WHITES WATCH our ad for fall bred sows and gilts.
WEBER BROS. 10 Mile Rd. West Royal Oak, Mich.

Chester Whites Herd headed by The Mon-ster and Iowan's Jumbo, Two great Big Type boars of the breed. FRED L. BODIMER, Reese, Mich

Chester Whites corded free. Albert Dorr. Gilts bred for fall, also spring pigs, C, O. D, re-Clinton, Mich.

CHESTER White-2 show boar prospects by Prince Big Bone and Advance Type, Gilts bred for August farrow and spring pig. Priced reasonable and satisfaction guaranteed. John C. Wilk, Alma, 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's. Orders booked for late farrowed spring pigs at \$10 to \$12. each. Registered free. C.J. THOMPSON. Rockford, Mich.

O. I C. Spring pigs, single or in pairs, Price right. Satisfaction guaranteed.
E. C. Badgley, Jackson, Mich. R. F. D. U.

0.1.0. One last fall boar.10 last fall gilts bred. 100 this spring pigs, recorded free, % mile west of Depot. Citz's Phone. Otto B. Schulze, Nashville, Mich, O. I. C. March bigs, single or in pairs, also clover LEAF STOCK FARM, Monroe, Mich.

O. I. C's One yearling boar and March pigs Young Brown Swiss bull. Milo H Peterson. Elmhust Farm, Ionia, Mich. R 2

FOR SALE Registered O. I. C's. March pigs Lee E. Gale. Mecosta, Mich.

Quality Poland Chinas

Sired by a good son of Orange Clansman. Now offering a few fall gilts and spring pigs of either sex.

S. S. BURRILL Reese, Mich.

Big Type P. C. some very choice boars double im Bmune, out 1100 lb. sire and mammoth sows from Iowa's greatest herds. E.J. Mathewson, Burr Oak, Mich

Line Bred Liberators By Revelation and Peter, The Great, boars. The last word in Poland Chma Breeding. Bred sows and spring pigs of either sex. Prices right. Vaughan's Seed Farm. Ovid, Mich.

RADIO GIANT
Represents the worlds largest strain of Poland China Hogs. Boars, Sows. Pigs at bargain prices from Mich. pioneer herd. We have bred them big for 39 years. We can furnish what you want JNO. C. BUTLER. Fortland, Mich.

L. T. P. C.

Choice Gilts \$25 to \$40. Boars \$30. Fall Pigs \$15. HART AND CLINE. Address F. T. HART, St. Louis, Mich.

BOARS READY for service, Spring boars at weaning time and gilts bred to (Ambit ion Again) for Sept. farrow. They are priced to sell and shipped on approval. Dorus Hover, Akron, Michael and shipped on approval.

Large Type P. C. Largest in Mich.
A few fall pigs for sale. 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

Large Type P. C.

The Real Kind. A few of those big, smooth, stretchy, bred gilts for sale. Bred for March, April and May farrow. Priced right.

N. F. BORNOR. Parma, Mich.

Large Type Poland Chinas

For sale Fall Boars, Gilts bred or open. Herd head ed by two Grand Champion boars,
A. A. FELDKAMP, Manchester, Mich.

B. T. P. C. Fall Sows, Big Bob and Peace and a son of Alaska. M. C. Mount, Mayville, Mich.

Large Strain P. C. 2 nice gilts with pigs by side, also pigs at wearing time.
H. O. SWARTZ, Schoolcraft, Mich.

WALLNUT ALLEY Big Type Poland China Boar pigs ready for new homes. Give me a chance to tell you about them. A. D. Gregory, Ionia, Mich.

Lone Maple Farm L. T. P. C. Spring pigs ready.

Also yr. boar. Write for description and prices. F. R. Davis & Son. Belding, Mich.

Large Type P. C. Pigs for sale. Reg-quire Sunnyside Farm, Hillman, Mich.

Hampshires A few bred gi'ts left, Place your not akin, 10th year, JOHN W. SNYDER, R. 4, St. Johns, Mich



GRAIN QUOTATIONS

Monday, July 16. Wheat.

Detroit.—No. 2 red \$1.10½; No. 2 mixed \$1.10½; No. 2 white \$1.10½. Chicago.—July 97c; September 96½ @ 96½ c December 99¾ @ 99%c. Toledo.—Cash \$1.05@1.06.

Corn.
Detroit.—Cash No. 2 yellow 92½c;
No. 3, 91½c; No. 4, 89½c.
Chicago.—July 82½c; September at 74½@75%c; December 62%c.

Oats.
Detroit.—Cash No. 2 white at 46½c;
No. 3, 45½c; No. 4, 44½c.
Chicago.—July 38¼c; September at 34c; December 35¾c.
Beans.

Detroit.-Immediate and prompt shipments \$5.50 per cwt. Chicago.—Choice \$6.25; red kidneys

at \$7.50.

New York.—Choice pea at \$6.50@7;
red kidneys \$7.50@7.75.

Rye.

Detroit.—Cash No. 2, 67½c. Chicago.—July 61½c; September at 64c; December 67¼c.

Toledo.—Cash 66c. Barley

Detroit.—Malting 70c; feeding 66c.
Seeds.
Detroit.—Prime red clover cash at \$10; alsike \$9; timothy \$3.30.

Hay.

Detroit.—No. 1 timothy \$17.50@18; light mixed \$17@17.50; No. 2 timothy \$15.50@16.50; No. 1 clover at \$14@15; No. 1 clover mixed \$15@16; straw at \$11@11.50.

Bran \$30; standard middlings \$34; fine do \$36@36.50; cracked corn \$41; coarse cornmeal \$39.50; chop \$34.50@35 per ton in 100-lb sacks.

Fruit.

Apples.—Chicago, Transparents and Duchess \$2.25 per bushel. Strawberries.—16-qt case, Michigan,

good \$1.25.

Cherries.—Chicago, Michigan 16-qt cases \$1.25@1.50; light sweet \$1@1.25 per 16-qt case.

Berries.—Chicago, blackberries

\$2.50@2.75 per 16-qt case; gooseberries \$2@2.25; black raspberries \$2@2.25; red raspberries \$2.50@2.75 per 24-pt case; currants at \$1.50@1.75 per 16-qt

WHEAT

WHLAI

Wheat prices declined again last week, the July delivery breaking below the dollar mark at Chicago, and reaching practically the lowest point since 1914. Increasing receipts of new crop wheat, greater hedging pressure, limited sales, dull flour trade, failure of rust damage to develop serious proportions in the northwest estimates of a huge Canadian crop, and bearish sentiment were elements in the decline. The department of agriculture estimates the winter wheat crop at 586,000,000 bushels and spring wheat 586,000,000 bushels and spring wheat at 235,000,000 bushels, making a total of 821,000,000 bushels compared with 862,000,000 bushels harvested in 1922. The combined carry-over on farms, at country mills and elevators, and in the visible supply is 20,000,000 bushels larger than last year. Adding the new crop, the total available for the crop year is 21,000,000 bushels less than in 1922 and indicates an exportable surplus of 200,000,000 to 225,000,000 bushels. plus of bushels.

RYE

The rye crop has deteriorated in the last month, the July forecast being 68,700,000 bushels compared with 72,500,000 bushels a month ago and 95, 500,000 bushels harvested last year.

CORN

While the acreage planted to corn was sharply reduced in the cotton belt it was increased in most other sections it was increased in most other sections and the total for the entire country is larger than last year. The average condition, according to the government's report, was slightly below normal. Cash demand is broad as industries are expanding operations and purchases by feeders are rather persistent. Prices at Chicago are only twelve to fifteen cents lower than wheat and are the highest of the season. The committee of economists son. The committee of economists considering the agricultural outlook pointed out the probability of a corn

shortage in 1924. Receipts of corn at primary markets have been gradually increasing. While they were lighter last week, producers have been selling more freely in the last few days. The visible supply is abnormally small and arrivals have not been sufficient to prevent further withdrawals from it.

OATS

Oats prices declined to a new low level last week. They are cheap compared with corn or hay, producers are not offering new oats freely and the visible supply is only 7.885,000 bushels compared with 42,400,000 bushels last year. The new crop is estimated at 1,284,000,000 bushels compared with 1,201,000,000 bushels last year and an average of 1,378,000,000 bushels from 1917 to 1921.

SEEDS

Recent bargain prices for red clover seed attracted buyers and values moved up slightly last week. Crop prospects are a little less favorable for both timothy and red clover, according to late reports.

FEEDS

Mill feed markets are easy and prices are declining. Demand from the interior is dull, especially for future delivery. Bran for shipment in August, September and October is quoted at a discount of \$1.50 under prompt shipment. Stocks of all feeds appear

HAY

Conditions of the hay crop on July 1 was officially estimated at 81.1 com-pared with 88.7 last, year and an average of 85.5 in the five years, 1917 to 1921. With a small reduction in the 1921. With a small reduction in the acreage, the crop forecast is 99,000,000 tons compared with 113,000,000 tons last year. As last year's crop was well cleaned up and live stock production is increasing rather than decreasing, demand should be fairly broad during the next twelve months. The receipts of hay at northeastern and central western markets are light and barely sufficient to supply the demand. barely sufficient to supply the demand. Prices are holding firm.

POULTRY AND EGGS

Although surplus stocks of 402,000 cases of eggs on July 1 as compared with a year ago were shown by the preliminary report, dealers are still taking additional supplies of fresh eggs for storing purposes. Receipts

are gradually decreasing and the sup-ply of good eggs is not sufficient for requirements so that prices for them are higher. Undergrades move more

are higher. Undergrades move more slowly at comparatively easy prices. Chicago.—Eggs miscellaneous 22@2½c; dirties 19@19½c; checks 19@20c; fresh firsts 23@23½c; ordinary firsts 21@21½c. Live poultry, hens at 21½c; broilers 28@31c; roosters 12c; ducks 23c; geese 21c; turkeys 20c. Detroit.—Eggs, fresh candled and graded 23@24c. Live poultry, broilers 38@42c; heavy hens 25c; light hens 20c; roosters 14c; geese 12c; ducks at 20@26c.

POTATOES

POTATOES

The potato acreage was reduced ten per cent this year according to the government's estimate and the July forecast is for a yield of 382,000,000 bushels, compared with 451,000,000 bushels last year. The average from 1917 to 1921 was 388,000,000 bushels. The New England states will have a larger crop than last year while New York, Pennsylvania, Michigan, Wisconsin, North Dakota and Idaho all show sharp reductions. Shipments of potatoes from producing sections are fairly large. Irish Cobblers are now quoted at \$5.50@6.25 a barrel and Bliss Triumphs at \$2.25@2.75 per 100 pounds in northern consuming markets.

BUTTER

BUTTER

Light receipts of top scores of but-ter insufficient to meet the demand for storage succeeded in maintaining the prices on a firm basis last week. Toprices on a firm basis last week. To-ward the close, as receipts increased the market became easier. The short-age of nearly 5,000,000 pounds in cold age of hearly 5,000,000 pounds in cold storage holdings on July 1 as compar-ed with July 1, 1922, shown by the preliminary report is being reduced with some prospect that on August 1 holdings will be on nearly even terms with last year. This speculative dewith last year. This speculative demand will tend to prevent any sharp

decline in the immediate future.

Prices on 92-score were: Chicago 37c; New York 39c. At Detroit fresh creamery in tubs sells for 35@36½c.

BEANS

The July 1 forecast of the bean crop for the entire United States is 15,000,000 bushels compared with 11,893,000 bushels last year and a 1917-1921 average of 13,000,000 bushels. Michigan plantings are placed at 568,000 acres, the largest record, and an increase of 32 per cent over last year. With a

July 1 condition in Michigan of 91 compared with a ten-year average of 87, the crop forecast is 6,719,000 bushels against 4,809,000 bushels last year. Bean prices were slightly lower last week partly as a result of the estimated increase in the crop. A little business is passing but trade is relatively dull. Choice hand-picked whites are quoted at \$5.75 per 100 pounds f. o. b. Michigan points for quick shipment, \$5.65 for prompt shipment, \$5.60 for September shipment and \$5.40 for October shipment.

WOOL

Wool markets are quiet with buyers and sellers playing a waiting game. The downward trend seems to have been halted. A few sales are being made in the producing sections and also in seaboard markets but growers are reluctant to sell at the lower prices being effort sell at the lower prices being effort and are the lower prices being effort and are the lower prices. are reluctant to sell at the lower prices being offered and many in the west are consigning. Prices on lightweight goods are to be announced soon. The market will probably be dull until the response of cloth buyers to the higher values on such goods compared with last year has been determined.

The Boston quotations are as follows: Michigan and New York fleeces delaine unwashed 55@56c; fine unwashed 49@50c; half-blood unwashed 55@56c; three-eighths blood unwashed 55@56c; quarter-blood unwashed 51@52c.

APPLES

The commercial apple crop is estimated at 33,100,000 barrels compared with 31,000,000 barrels last year and an average of 25,700,000 barrels from 1917 to 1921. Shipments of summer apples are increasing rapidly, the total for the week ending July 7 being 348 cars compared with 91 cars in the preceding week.

PEACHES.

The peach crop is estimated at 48,-400,000 bushels compared with 56,700,000 bushels last year and 1919-1921 average of 42,700,000 bushels. Shipments of peaches are increasing with some cars coming from as far north as Maryland Maryland.

DETROIT CITY MARKET

The market has been very active, with plenty of produce and a good demand. Fruits were a little slow and so were carrots, cabbage and turnips. But beans, potatoes, radishes and spinach were active. Asparagus was bringing \$1.50@2 per dozen bunches; string beans \$2@4 per bu., depending on the quality; beets 40@75c per dozen bunches; cabbage 65c@\$1 per bushel; cherries \$3.75@4.50 per 24-qt case; currants \$3.75@4.50 per case; eggs 30@40c per dozen; gooseberries \$4 per 24-qt case; leaf lettuce 35@70c per bushel; green onions 25@60c per doz. bunches; peas \$1.25@3.50 per bushel; live poultry 25@30c per pound; potatoes 50c@\$1.25; radishes 35c@\$1 per dozen bunches; strawberries \$4@7 per 24-qt case. The market has been very active, 24-qt case.

Monday, July 16.

Live Stock Market Service

DETROIT

Cattle.

Receipts 1,349. Canners and bulls steady; all others 50c lower; quality common. Fancy light yearlings....\$ 9.50@10.00
Best heavy steers 9.00@ 9.50
Handyweight butchers ... 7.50@ 8.00
Mixed steers and heifers 6.50@ 7.00

6.00@ 5.25@ 6.50 5.50 Handy light butchers.... Light butchers
Best cows 5.50@ 5.75 4.00@ 5.00 2.50@ 3.00 Butcher cows Cutters
Canners
Choice bulls
Bologna bulls
Stock bulls 2.00@ 2.50 5.50@ 6.50 5.00@ 5.50 4.00@ 5.00 5.50@ 6.25 5.00@ 5.75 Feeders Stockers

Sheep and Lambs

 Receipts 331. Market steady.

 Best lambs
 \$14.50@15.00

 Fair lambs
 12.00@13.00

 Light to common
 9.00@11.00

 Fair to good sheep
 5.00@ 6.00

 Culls
 1.50@ 2.50

Veal Calves.

Receipts 795. Market is steady on good; poor on common. Will close \$1 Hogs.

Hogs.

Receipts 1,272. Market steady.

Mixed hogs and yorkers \$8.00

Pigs 7.40

Heavies 7.50

Roughs 5.85

CHICAGO

Hogs.

Receipts 57,000. Market on the good kinds active, 10@20c higher; others, strong to unevenly higher. Average bulk good choice 160 to 240-lb, \$7.60@-7.70; tops at \$7.75; bulk 250 to 350-lb. butchers \$7.25@7.50; packing sows mostly \$6@6.35; best strong weight pigs around \$7. mostly \$6@0.55, pigs around \$7. Cattle.

Receipts 27,000. Market mostly killing classes slow, unevenly weak to 25c lower; choice classes medium to good yearlings predominating; part load of mature steers \$11.75; some held high-er; canners, cutters, bulls and choice fat cows steady to weak; bidding 50c lower on calves; stockers are scarce and steady.

Sheep and Lambs.

Receipts 20,000. Market generally steady; early top western lambs at \$14.90; bulk of good natives at \$14.00; calls mostly \$8.50; California clipped lambs \$13.75; bulk of medium and heavy weight ewes at \$5.06.50; heavies \$4.

BUFFALO

Cattle.

BUSINESS CONDITIONS TWO-SIDED.

Business conditions retain the two-faced character which they have had in recent weeks. A relatively high rate of activity in manufacture and in current distribution is maintained, but there is a great degree of caution as to the future and a marked unwillingness to make commitments very far ahead.

While manufacturers and distributors lack confidence as to the future, their failure to stock up shelves means that new orders for goods will be forthcoming soon and tends to keep

be forthcoming soon and tends to keep business in a healthy condition. A decisive setback is practically impossible in the absence of extensive forward commitments.

The committee of economists selected by Secretary Wallace of the Department of Agriculture to report on the agricultural outlook says that "our credit position is unusually strong and more than equal to any demands Receipts 10 cars. Market is slow.
Calves at \$14.

Hogs.
Receipts 20 cars. Market is slow.
Heavy \$7.90@8; yorkers and pigs at \$8.25@8.40.

Sheep and Lambs.
Receipts one car. Trade is steady.
Top lambs at \$16; yearlings \$12@13; wethers \$7.50@8.50; ewes \$4@7.

the agricultural outlook says that "our credit position is unusually strong and more than equal to any demands which may be made upon it in the crop moving season.

LIVE STOCK SALE.

LIVE STOCK SALE.

July 26—L. Whitney Watkins, Manchester, Mich.

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COMPARED WITH 1922.

of the Federal Crop Reporting Board, prise. Mutual associations of farmers A percentage comparison with the may be required. acreage for 1922 is also made. Here ro the figures:

are the figures:	MICHIGAN FAIR DATES, 1920.
Per CtAcres.	
1922. 1923.	Allege County Agricultural Socie-
94.4 39,750,000	Allegan County Agricultural Socie-
Winter wheat 94.9 18,503,000	ty, Allegan, Aug. 28-31.
	Arenac County Agricultural Society,
All wheat	Ctandish Sent 18-21
Corn	Armada Agricultural Society, Al-
Oats	mode Cent 18-21
Barley	Calhoun County Agricultural Associ-
Bve	ation Marshall Sent 18-21.
Potatoes	
Hay, all 98.7 76,031,000	4 00 04
	Customer Fair Wolverine.
CROP REPORTERS ESTIMATE 1925	Cont 26-28
CROPS.	Chippewa County Fair, Sault Ste.
	Marie Sent 10-13
AT Tuly 1 of each year Federa	cultural Society, Pickford, Sept. 17-19.
ON July 1 of each year Federa Crop Reporters make production	Clare County Agricultural Associa-
Crop Reporters make production	s tion, Harrison, Sept. 18-21.
estimates of the various major crop	
the country Here are the	e Clinton County Part, St. Commis, St.
figures for 1923 compared with produc	3-6. Houghton
ngures for 1925 compared with product	Copper County Fair, Houghton,

grown in the country. Here are the figures for 1923 compared with produc- 3-6. figures for 1923 compared with production in 1922, and with the five-year average from 1917 to 1921 inclusive.

The figures are given in millions of bushels; to get the number of bushels, therefore, simply add six ciphers els, therefore, simply add six ciphers els, the right of each number.

Copper County Fait,

Sept. 25-29.

Croswell Agricultural Society, Croswell, Sept. 11-14.

Delta County Menominee Range

Agricultural Society, Norway, Aug. 31-

Wintr wint		1917-21 Aver- age.	1922 Esti- mate.	Fore- cast.
Peaches, total. 42.1	Sping whit All wheat Corn Oats Barley Rye Potatoes Hay, all, tons Apples, total.	. 590 . 245 . 835 .2,931 .1,378 . 192 . 70.3 . 388 . 99.5 . 160 . 25.7	276 862 2,891 1,201 186 95.5 451 113 201	586 235 821 2,877 1,284 198 68.7 382 99.0 189 33.1 48.4

CROP PROSPECTS LESS.

D ECREASED production as com-D ECREASED production as compared with the five-year average is shown in the case of wheat, corn, coats and rye in the July crop report issued by the United States Department of Agriculture. This is interpreted by some economists as indicating that farmers are endeavoring to solve that farmers are endeavoring to solve 11-14. Ionia Free Fair, Ionia, Aug. 14-17. Iosco County Fair, Tawas City, Sept. 11-14. Isabella County Agricultural Society, Jackson County Agricultural Society, Jackson, Sept. 10-15. Lenawee County Fair, Adrian, Sept. 17-21 that farmers are endeavoring to solve the problem of low farm prices of ag- 17-21. the problem of low farm prices of agricultural products by reducing pro-duction.

Livingston County Fair Association, Howell, Aug. 28-31.

Luce County Fair, Newberry, Sept.

crop in all the leading dairy states outside of New England. The hay crop in Michigan is 3,526,000 tons, as compared with 4,457,000 tons in 1922. Seyen middle west states have an estimated hay crop of 27,554,000 tons.

en middle west states have an estimated hay crop of 27,654,000 tons, as compared with 37,183,000 tons in 1922.

This hay shortage will undoubtedly have a marked influence not only upon the price of hay next winter but upon all dairy products.

Michigan State Fair,

North Branch Fair Society, North Branch, Sept. 18-21.

Northwestern Michigan Fair Association, Traverse City, Sept. 17-21.

Northeastern Michigan Fair Association, Bay City, Aug. 27-31.

Oakland County Fair, Milford, Sept. 12-15.

crop than last year. There is a heavy 12-15. drop in acreage, especially in states that found difficulty in disposing of last year's crop. The percentage of last year's acreage in the whole country is 89.9 per cent; in New England, Oceana County Agricultural Society, Hart, Sept. 18-21.

Ogemaw County Fair, West Branch, Sept. 5-7.

Otia Fair Association, Brahman, Sept. 15.

Otsego County Fair, Gaylord, Sept. 94; New York, 95; New Jersey, 84; 18-21. Pennsylvania, 98; Michigan, 89; Wis-Pres 94; New York, 95; New Jersey, 84; 18-21.

Pennsylvania, 98; Michigan, 89; Wisconsin, 83; Minnesota, 82; North Dakota, 75; Colorado, 90, and Idaho 70 per cent.

CROP INSURANCE RECOMMENDED.

THAT the insurance of crops is feasible and ungently needed for for Aug. 21-24.

THAT the insurance of crops is Shiawass feasible and urgently needed for Aug. 21-24. the protection of farmers is the opinion of officials of the department of Stalwart Fair Association, Stalwart, agriculture after making a careful Oct. 4-5. study of the subject. These men say that in the light of progress made by Van Buren County Fair, Hartford, in surance leaders in other folds, it is insurance leaders in other fields, it is Sept. 25-29. Washtenaw County Fair, Ann Arbor, surance facilities will remain long undeveloped.

This investigation was made at the instance of the United States Senate.

Wasntenaw County Fair, Ann Arbor, Sept. 18-22.

Wayne County Fair, Northville, Sept. 25-29.

West Michigan Fair, Grand Rapids, Sept. 17-21.

ACREAGE IN AMERICAN CROPS AS Hearings will be held on the subject next December. Definite conclusions have not been reached as to the form THE following figures will give our of organization needed to provide the readers the estimated acreage of desired protection. The scope of the staple crops in the United States as work, however, seems to make it necmade by the various correspondents essary that it be a government enter-

MICHIGAN FAIR DATES, 1923.

Sept. 3.
Eaton County Agricultural Society,
Charlotte, Sept. 25-28.
Emmet County Fair, Petoskey, Sept.

Genesee County Fair, Davison, Aug.

27-31.
Gogebic County Fair and Agricultural Association, Ironwood, Aug. 28-31.
Grange Fair of St. Joseph County.
Centerville, Sept. 17-22.
Grangers', Gleaners' and Farmers'
Fair, Big Rapids, Sept. 25-29.
Gratiot County Agricultural Society,
Ithaca, Aug. 28-Sept. 1.
Hillsdale County Agricultural Society, Hillsdale, Sept. 24-29.
Huron County Fair, Bad Axe, Aug. 28-31.

Imlay City Fair, Imlay City, Sept.

Oceana County Agricultural Society,

Otsego County Fair, Gaylord, Sept.

\$10^wWorth of Spraying Equipment \$<u>165</u>



Pumps made to U. S. Army specifications for fire protection in army barracks. They are new, never been used after testing and guaranteed. Five-gallon steel tank, double galyanized, made strong for soldier service. Ribbed bail at top, lifting handle at bottom. The pump part alone is worth the whole price. Pump is heavy brass tubing, with strainer and brass ball valve. The plunger is ¾ inch brass tubing, with brass ball suck and a man's size malleable handle. Brass fittings throughout, 3/8 inch hose with solid stream nozzle, as shown.

Throws Powerful Stream 40 Feet

With each pump we send FREE Brown's Non-Clog Auto Spray Nozzle, with four disks. Makes it equal to spray outfits costing \$10.00 to \$15.00. Endorsed and recommended by state and county agricultural agents.

Only a Limited Supply—Order Yours Today

There's a hundred uses for this outfit. Fire protection about the house and barn, washing automobiles or windows, white-washing and painting, spraying stock, stables, chicken houses, growing crops, flowers, small fruits, and, with extension, for trees. Shipped Parcel Post, C. O. D. at the bargain price of \$4.65.

Our supply is limited—first come, first served. Mail your order today.

Army Supply Co., 41 U. S. Trust Bldg., Louisville, Ky.

CLASSIFIED ADVERTISING

This classified advertising department is established for the convenience of Michigan farmers. Small advertisements bring best results under classified headings. Try it for want ads and for advertising miscellaneous articles for sale or exchange. Poultry advertising will be run in this department at classified rates, or in display columns at commercial rates.

Rates 8 cents a word, each insertion, on orders for less than four insertions; for four or more consecutive insertions 6 cents a word. Count as a word each abbreviation, initial or number. No display type or illustrations admitted. Remittanees must accompany order.

Real estate and live stock advertising have separate departments and are not accepted as classified. Minimum charge, 10 words.

Rates in Effect October 7, 1922

	Wrest and We	70.00			-	
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Special Notice

All advertising opposition of the classified Department must reach this office tendags in advance of publication date.

MISCELLANEOUS

LEAF TOBACCO, five pounds chewing \$1.75; ten, \$3.00; twenty, \$5.25; five pounds smoking \$1.25; ten, \$2.00; twenty, \$3.50. Pipe and Recipe free. Send on money, pay when received. United Tobacco Growers, Mayfield, Ky.

NATURAL LEAF TOBACCO. Chewing 5 lbs., \$1.75; 10 lbs., \$3.00. Smoking 5 lbs., \$1.25; 10 lbs., \$2.00. Pay when received, pipe and recipe free. Farmers Co-Operative Tobacco Union, Paducah, Ky.

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, S-133, Mayfield, Ky.

FOR SALE Steam Trashing Machine Engine used 2 years. Grain and bean machines in fair condition. Will sell reasonable. George Beadore, R. 4. Pinconning.Mich.

MONEY TO LOAN ON FARMS, 6% interest. No commission. No mortgage tax. Security Mortgage Corporation, 1018 Majestic Bullding, Detroit.

FREE to Dog Owners—Polk Miller's famous dog book, 64 pages on care, feeding, training, with ailment chart and Sen. Vest's celebrated "Tribute to a Pog," etc. Also full list Sergeant's Dog Medicines, the standard for 44 years. Just send your name and address. Our free advice department will answer any question about your dog's health free. Polk Miller Drug Co., Inc., 119 Governor St., Richmond, Va.

REG. SCOTCH COLLIE PUPPIES and brood matrons. Natural heel drivers, \$10 and up. Silvercrest Kennels, Gladwin, Mich.

POULTRY

RHODE ISLAND REDS—Rose Comb Cockerels, hen-hatched, farm raised. Big, thrifty dark colored birds from prize winning strains, \$4 to \$7.50. Two specials at \$10 each. Careful attention to mail orders. Bidwell Stock Farm, Tecumsch, Michigan.

PULLETS—English White Leghorns, eight to ten weeks old. Write for latest prices. Pine Bay Poultry Farm, R-4, Holland, Mich.

TOM BARRON English S. C. White Leghorn Pullets' ll weeks old reasonable prices, John Mar-tinie, Zeeland, Mich.

S. C. BUFF LEGHORNS. Old and young stock for sale. Willard Webster, Bath, Mich.

BABY CHICKS

BABY CHICKS. 15 Leading varieties. 2½ Million for 1923. The kind that lay early. Large, vigorous, fluffy kind. Lowest prices. Send for large catalog. D. T. Farrow Chickeries, Peoria, III.

QUALITY CHICKS, prices cut. Leghorns, 19c; Rocks, Reds, Orpingtons, Wyandottes, 12c; Assorted, 9c, Prompt free delivery. Catalog. Misseuri Poultry Farms, Columbia, Mo.

HELP WANTED

WANTED—RELIABLE, ENERGETIC MEN to sell "Higenfritz" fruit trees and shrubbers. Unlimited apportunities. Every property owner a prospective customer. One of our men drew over \$3,500 in 1922. Outfit and instructions furnished free. Steady employment; cash weekly. Write for terms. I. E. Higenfritz Sons Co., The Monroe Nursery, Dept. "C." Monroe, Mich. Established 1847.

Corporation, 1018 Majestic Building, Detroit.

DOGS

SCOTCH COLLIE puppies from registered stock.
Robert Stewart, Britton, Mich.

WANTED—Single man experienced and thoroughly competent for farm work. First class field crops; Jersey cows; 12 acres, orchard. A good position for able and worthy man who can give references. State Farms Association, Kalamazoe, Mich.

The Real Estate Market Place

RATES For Real Estate Advertising On This Page

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

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

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

Equipped 80 Acres,
Horse, 3 Cows, 300 Poultry.

65 Ducks, farm tools, growing crops, only 2 miles to town with it. 8 depot, high school churches, stores, other advantages. 35 acres loamy tillage. 15 acres woodland. 30 acres take watered, where fenced pasture, 44 apple trees, other fruit; 5 room cottage painted, good cellar. large shade, pleasant view overlooking lake, near neighbors. 60 ft. barn. granary, poultry houses, etc., for quick sale owner makes sacrific houses, etc., for quick sale owner makes sacrific houses, etc., for quick sale owner makes sacrific or MIOHIGAN FARM AGENCY, 628 Ford Bldg. Detroit.

50c ACRE CASH: 50c ACRE MONTHLY BUYS
TEXAS., ARKANSAS grazing, oil, farm, or timber
land. Getparticulars, No obligation, Gulf Realty Company, 1021 Bedell Bidg, San Antonio, Texas

Sell Your Farm by my quick and easy buyers. Send for particulars. Albert J. Shirley. Box 386, Kalamazoo, Mich.

SPEND YOUR VACATION in Colorado, Write for il-

Farm Wanted Sell your farm quick for cash. New Oo. Majestic Bldg. Dept. 8, Detroit, Mich.

25 ACRES in Ferry to Sell or exchange for Automobile. Consider anything but an Overland. D. Ward, Ada, Mich, R. 4.

For Sale 40 A. farm, good soil, large orchard, good frame bldgs, good water, near good fishing and hunting. \$2.800.00, Bert Fales, Sterling. Mich Send for new land bargains. We have what you want. Jenkins and Jones. .Ava. Mo.

WANTED To hear from owner of land for sale FARM WANTED-Immediately, send particulars FMR, ADAMS, 620 Chestnut St. St. Louis, Mo.

For Sale - by Owner

Improved Farms—Tracts 40 to 1000 Acres in OKLA., ARK., LA., N. MEX.. Small cash payment, balance on time, low interest rate. Buy now while lands are cheap. Lands are already going up. Sendfor booklet describing 200 Farms.

American Investment ompany Oklakoma City, 603 Colcord Bldg., Okla.

For Sale or Trade for Farm. Seven apt. house per month. Give description, price, taxes and incumbrance in answer. JOSEPH J. MARTIN, R. D. 3, Albion, Mich.

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

80 Acres Improved \$65 per acre \$1000 proved \$67.50 per acre \$1000 cash. 160 acres improved \$67.50 per acre \$1000 cash. THE ALLEN COUNTY INVES TMENT CO., Iola, Kansas,

CASH YOUR PROPERTY QUICKLY, location immaterial. Give best price. Universal Sales Agency, Box 43, N. Topeka, Kans.

Want to hear from party having farm for sale.

JOHN J. BLACK, Capper St., Chippawa Falls, Wis.

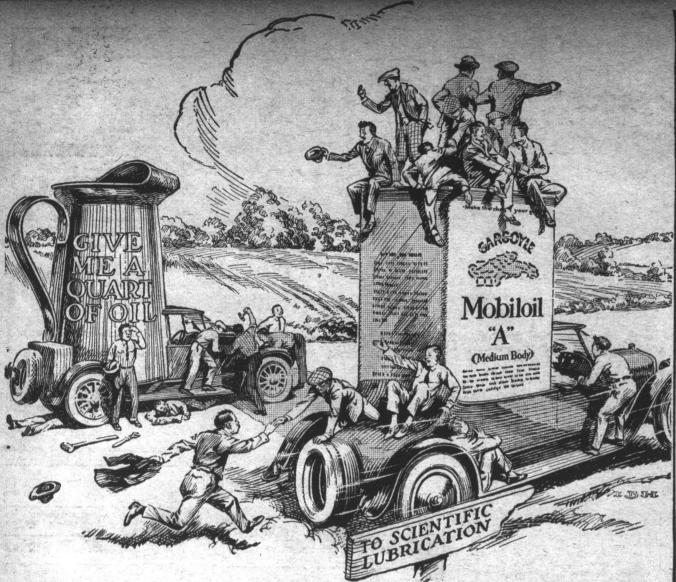
IF YOU WANT TO LIVE in California write Kings merce, Hanford, California, for free booklet.

FOR SALE Southeastern Colorado irrigated and non-irrigated farms and ranches. Write for free information. Gregg Realty Company, Lamar, Colorado.

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

Good farm for sale 76% Acres. Good building, 150 fruit trees % mile to large store, two churches, & school. Write C W. Shanafelt, Evart. Mich.

Farm Wanted Near school; at spot cash price. Mean business. Fuller. Wichita. Ks. WANTED buyer for improved Irrigated Farm by J. L. Pelton, Eden, Idaho.



Changing—changing—changing—to "Give me Gargoyle Mobiloil"

AND WHY!

The typical American motorist realizes today as never before that "Give me a Quart of Oil" does not insure either a trouble-free engine or low operating and maintenance costs.

And so motorists in larger numbers than ever before are asking for Gargoyle Mobiloil. They have discovered that real economy depends not upon cost per quart, or per gallon, but upon cost-per-mile and cost-per-year. They refuse to pour "just oil" into their crankcases because they know it results in at least 50% of all engine troubles.

Result: There are more specific requests for Gargoyle Mobiloil than for any three other oils combined. The sale of Gargoyle Mobiloil is more national in its scope than the combined sales of any other two oils.

A marked swing to the purchase of Gargoyle

Mobiloil in the sealed containers is reported by garage men.

A marked majority of automobile engineers and service managers approve Gargoyle Mobiloil as correct for the cars in which they are interested.

In short, America is waking up to the necessity of scientific, economical lubrication. And once awake, motorists turn to the Chart of Recommendations—find the correct grade of Gargoyle Mobiloil for their cars—and then make sure that they get it.

By-product oils won't do

The growing change to "Give me Gargoyle Mobiloil" has been hastened also by the motorist's knowledge that 9 out of 10 oils are mere gasoline by-products.

And motorists know that behind Gargoyle Mobiloil is a distinct policy of specialization. Gargoyle Mobiloil is produced by *lubrication* specialists and from crude stocks chosen for their lubricating value.

"Give me Gargoyle Mobiloil" means "Give me specialized lubrication."

Chart of Recommendations

THE correct grades of Gargoyle Mobileil for engine librication of both passenger and commercial cars are specified in the Chart below.

How to B means Gargoyle Mobiloil "A"
Read the BB means Gargoyle Mobiloil "BB"
Chart: E means Gargoyle Mobiloil "E"
Are means Gargoyle Mobiloil Arctic

Where different grades are recommended for summer and winter use, the winter recommendation should be followed during the entire period when freezing temperatures may be experienced.

This Chart of Recommendations is compiled by the Vacuum Oil Company's Board of Automotive Engineers, and represents our professional advice on correct automobile lubrication.

21111EA AB	19	23	10	22	1	121	10	20		10
NAMES OF AUTOMOBILES AND MOTOR TRUCKS	Summer	Winter	Summer	Winter	Summer	Winter	Summer	Winter	Summer	Winter
Buick. Gadillac. Chalmers Chandler Six. Chavelet (S. cyl.)	^^^	Arc. A A Arc.	Arc.	Arc.	Arc.	Arc.	Arc.	Arc.	Arc.	Arc.
(Copper Cooled)	A Arc.	Arc.	Are.	Arc.	Are,	Arc	Arc.	Arc.	Arc. A	A Arc.
Cole	***	Arc.	***	Arc.	***	Arc.	^^^^	Arc. Arc. A	^^^	Are.
" (5 ton). " All Other Models Denby Dodge Brothers. Dort. Duesenberg.	Arc. Arc. A	Arc. Arc. Arc. Arc.	Arc. Arc. Arc. A	Are. Are. Are. Are.	Arc. Arc. A	Arc. Arc. Arc.	Arc. Arc. A	Arc. Arc. Arc. Arc.	Arc. Arc. Arc.	Arc. Arc. Arc.
Six	Arc. A	Arc. Arc. A	ATC.	Arc. Arc. Arc.	A	Arc.	Α.	Are	A	Arc.
Earl Elear (4 cyl.)	Arc.	Arc.	Arc. A	Arc.	Arc.	Arc.	Arc.	Arc.	Arc.	Arc.
Four Wheel Drive	E A BB	Arc. E A BB	E A BB	Arg. E A BB	EEAAAA	Are. Are. A	EEAAA	Arc. E A Arc.	Arc. EE A A	EEAA
Gardner	****	A Arc.	4444	Arc. A	AAAABB	Arc. Arc. A	* **	Arc. A	A A A A	Arc. Arc.
Gardner Garford (34-1 ton) (1'4-1'4' ton) (2'2-2'4' ton) All Other Models G. M. C. (K15) (K16, K41, K71, K101) All Other Models Grant (Cont. Eng.) All Other Models	В	A	В	A	B Arc. Arc.	A Arc. Arc.	Arc. Arc.	Are.	Arc.	Arc.
"All Other Models Gray Hahn (1 ton) " (Mod. FE) " (Mod.M2 & 6 ton) " All Other Models	Arc.	Arc. Arc. A	Arc. Arc.	Arc. Arc. Arc.	Arc.	Arc.	A	Arc.	A	Are.
(Mod.M2 & 6 ton) All Other Models Hal-Fur Haynes (6 cyl.) (12 cyl.) H. C. S.	Arc. A	Arc.	Arc.	Arc. Arc.	Arc. AAAA	Arc.	Arc.	Arc.	Arc.	Arc. A
	*****	Arc. Arc. Arc.	Arc.	Arc.	Arc.	A Arc. Arc.	A Arc. A	A Arc Arc	Arc. A	Arc. Arc. Arc. A
Hupmobile Indiana (1 ton). (1/s ton). (2 ton). (5 ton). All Other Models	***	Arc.	****	Arc.	***	Arc.	***	Arc.	***	Arc.
Jewett Jordan Kissel Kar Lexington (Cont. Eng.) "All Other Models Lincomphile	Arc. A	Arc. Arc.	Arc.	Arc. Arc.	Arc.	Arc. Arc. Arc.	Arc. A	Arc. Arc.	Are Arc.	Arc. Arc. Arc.
Marmon. A	4444	A A E A	****	AE A	AAAAAAA	A E A	A A Arc.	E A Arc.	A Arc.	E A Arc. Arc.
Mercer	A Arc.	A Arc.	Arc.	Arc. Arc.	Arc. A	Arc.	Arc. Arc.	Arc. Arc.	Arc.	Arc.
" (1 & 2 ton) " All Other Models National (Mod. 6-31) " (Mod. 6-51) " (12 cyl.) " All Other Models	A Are. A	Are. Arc. Arc.	Are.	Arc.	Arc.	Are.	^^	Arc.	^^^	Arc.
Oakland. Oldsmobile (8 cyl.) (6 cyl.) All Other Models Overland.	A A A	**	****	***	***	***	***	***	Arc.	Arc.
Overland. Packard. Paige (Cont. Eng.) (Com'l). All Other Models	A A Arc. A	Arc. Arc. A	A 4 4 6 4	Arc.	A A A A A C .	Arc.	A A	Arc. Arc. Arc.	Arc.	Arc. Arc. A
" All Other Models Peerless. Piezce Arrow (2 ton) "A All Other Models	A	>>>>	****	Arc.	*****	ATC.	AAA Arc.	Arc. Arc.	A Arc	Arc. Arc. A
Peerless Pierce Arrow (2 ton) A All Other Models Premier (6 cyl.) Reo (Mod. T & U) All Other Models Rolls Royce	×× :××	Arc.	A	A :: Arc.	A	Arc.	A	Arc.	****	Arc. Arc.
"All Other Models Rolls Royce. Stephens Salient Six. Studebaker. Velie (Cont. Eng.). "All Other Models Westcott (Mod. D-48). "All Other Models Willys Knight. Wintop.	Arc.	Arc. Arc. Arc. Arc.	A Arc. Arc. Arc. Arc.	Arc. Arc. Arc.	A Arc. A	Arc. Arc.	A Arc.	Arc. Arc. Arc.	A Arc.	Arc. Arc.
All Other Models Willys Knight. Winton	Arc.	Arc.	Arc. B Arc.	Arc.	Arc. B Arc.	Arc.	Arc. B Arc.	Arc.	Arc. B Arc.	Arc.
Makes of Engines										

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Arc.	Arc.								
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A	Arc.	14AC		A		A			100
A	A	A	A		A	A	A	A	100
A	DA:	100	12.00		4.50	1125	200	0.25	100
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				1		A	A	****	
100	2000		Arc.						100
	Arc.	10.50	1000	2.30	200	100	100	11.12	152.0
A.S	1	1.2	1.2	1.7	1.7	1.2	1 2	997	
7	1	100	1.2	1 4	13	1.7	1 2	100	23
1	10	1 4	100	1 7	1	12	10	1.2	14.
		10	MIC.	10	Mic.	0	Luic.	100	Pu
		200	100	100	370	E A	O'A	OX.	
	100	100	10	100	100	100	10	FA	IA
A	A		1 A	LA.	A	I A	A	LA	197
	A A A A A A A A A A A A A A A A A A A	A Arc. Arc. A Arc. Arc.	A Are Are Are Are Are Are Are Are Are Ar	A Are. Are. Are. Are. Are. Are. Are. Are	A Arc. Arc. Arc. Arc. Arc. Arc. Arc. Arc	A Arc. Arc. Arc. Arc. Arc. Arc. Arc. Arc	A Arc. Arc. Arc. Arc. Arc. Arc. Arc. Arc	A Arc. Arc. Arc. Arc. Arc. Arc. Arc. Arc	A Arc. Arc. Arc. Arc. Arc. Arc. Arc. Arc

Transmission and Differential:
For their correct lubrication, use Gargoyle Mobiloil "C,"
"CC" or Mobilubricant as recommended by complete
Chart available at all dealers.



Mobiloil

Address our nearest branch:

New York (Main Office) Boston Indianapolis Minneapolis Milwaukee Chicago St. Louis Buffalo Philadelphia Des Moines

Detroit Dallas Oklahoma City Pittsburgh Kansas City, Mo.

Fair Retail Price

When the dealer sells a quart of Gargoyle Mobiloil for less than 30c, he does not make his fair, reasonable profit.

Lower prices often accompany substitution of low-quality oil for genuine Gargoyle Mobiloil.

Prices are slightly higher in Canada, the Southwest, and the Far, West.

Tractor Lubrication

The correct engine lubricant for the FORD-SON TRACTOR is Gargoyle Mobiloil "BB" in summer and Gargoyle Mobiloil "A" in winter. The correct oil for all other tractors is specified in our Chart. Ask for it at your dealer's.

VACUUM OIL COMPANY