

New Ideas in Poultry Feeding

B COKS on the feeding of poultry which were written only a few years ago are already out of date. The peculiar situation which arose as a result of the war served as a stimulus to investigators who have presented ideas of a very radical character. It is known now that many of the theories which were accepted as facts a few years ago had no proper basis. Rations wholly different in character from those once supposed indispensable are being used all over the country, and the output of eggs has not decreased as a result. Changes had to be made, not only because of the scarcity of certain grains but also because more economical reasons had to be devised in order to make the flocks even pay their way. The most progressive and important ideas as to poultry feeding are those which have been presented as a result of the experiments of Dr. E. V. McCollum, at Johns Hopkins University. Dr. McCollum has been giving much attention to certain important factors in animal nutrition, and these factors seem to apply as closely to poultry as to cattle and hogs. The underlying theory of the methods that have resulted from the study of Dr. McCollum's findings has been the liberal use of feeds which have the qualities termed vitamines. Now just what these qualities actually are still remains somewhat of a mystery, but they seem necessary for proper growth and development of all living creatures. They are found (Continued on page 395).

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CURRENT COMMENT

State Farm Bureau Plans

initial announcement

merely the agency through which the the strike is on. county agricultural agents are employ- What will be the effect on the coun- each turn our thoughts to the whole-

Farm Bureau is being built is exactly dustry. Yet the general public knows similar to the plan for a State and practically nothing regarding the mer-National Chamber of Agriculture, its of the controversy or the causes which has been repeatedly urged in which have contributed to its present these columns for the past two years. issue. The Farm Bureau is used as the local It is greatly to be regretted that a unit simply because it is the one avail- labor truce could not have been effect- will sell on the early market or hold able nucleus of an organization with ed until peace production was re-es- their beans for future developments. out personal or political alliances, det- tablished and the solution of general This will in no small measure be derimental to the most effective type of reconstruction problems at least well termined in many cases by the growfarmers' organizations, and because it started. The present untimely labor er's immediate need of the revenue is in itself an organization which can crisis will certainly tend to further ag- which his bean crop will bring. Obvibe made of vastly more value to the gravate the high cost of living if it ously, however, if selling in the early farmers of this country than has been falls short of bringing on a period of market is general, that market will be the case under the old plan of organi- general industrial depression, since established at a comparatively low zation. The State Farm Bureau, so there is no surplus of manufactured figure. Hence the desirability of marcalled, is planned to be a comprehen- products in any line and production keting the crop gradually. Present consive farmers' organization which will will be greatly curtailed by a big in- ditions would appear to favor the holdwork with rather than in opposition dustrial struggle such as now seems er since this year's crop promises to to existing farmers' organizations of to be in prospect. This situation will be of very good quality. In most secall types, for the greatest good to the in turn, add another element of uncer- tions the beans are clean, hard and greatest number of farmers in our tainty to the already serious situation well ripened. In a few districts there state along any and every line in confronting the farmers of the coun- have been some infections, but generstate along any and every line in confronting the farmers of the coun- have been some infections, but gener. I the Bolshevik line to the northern which such a powerful organization try, with the probable effect of still ally speaking, the quality of the crop bank of the Dvina river.—The capture can aid them. I further shortening agricultural produc- will be good, weather conditions hav- of Omsk by Russian reds is denied, it

afe almost initiates, particular organizations in struggle, are entitled to full informa-siderably below infinite in the parts acre-other states in a great national farm-tion regarding the points at issue and the best estimate on this year's acre-ers' organization which can adequate the reasons for their culmination in a age indicates that it is materially in joint session.—The national com-ly represent the interests of our great a big strike at this time. Public opin- short of a normal acreage in the in joint session.—The national com-mittee of iron and steel workers vote down motion to rescind the call of the which may arise. In addition the mem- the situation, may prove the saving ing sections do not promise any high steel strike. bers of this organization will be in a factor in a serious situation. Both yields. The yield of cereal grains is position to direct the activities of the sides in this industrial controversy not generally as large as was antici-

program of Michigan and the country. Let the public have the facts, that an ficult to estimate at the present time

the meantime every Michigan Farmer it before. reader should give this proposition careful consideration at an early date, for while the plan contemplates the organization of one county at a time, the work will be carried from county to county as rapidly as possible in the Observance order in which the farmers of the several counties manifest an interest in it.

The Steel tion Workers' Strike

sue will be found the shop.

of plans for a compre- that President Gompers of the Amer- who have interested themselves in the hensive membership ican Federation of Labor has issued public observance of Memory Day, in the Michigan State Farm Bureau. no public declaration regarding the Mr. Daniells has, each year, procured These plans, which are similar in de trouble and is supposed to have striv- and published a new poem, or song, tail to those so successfully employed en for a postponement of action by the giving fitting expression to Memory by the Illinois Agricultural Associa- strikers until after the labor confer- Day sentiment in appropriate form for reau as the local unit, is worthy of to have urged the officials of the steel two beautiful poems, which will be the careful consideration of every corporation to meet the union officials found on pages 372 and 391 of this farmer in the state. Perhaps the Illi- as a means of averting an immediate issue. They will be useful in the pubnois people were more fortunate in strike. But both sides have been ob- lic observance of Memory Day on Septheir choice of a name, since the durate in adherence to the principle tember 30. They will be a wholesome Farm Bureau has been thought of as for which they have contended and inspiration to individuals who will be

ed and work, and unless this plan is try and its industries cannot, of course, some theme suggested by the day, carefully studied by our readers they be foretold. But it is certain that the and aid its worthy founder in promotare likely to miss its full significance. general public will suffer along with ing its general observance. The plan upon which the State the steel workers and the steel in-

county farm bureaus along such lines owe it to the public to make a plain pated, and the surplus of these food-as they may desire instead of having public statement of their contention, stuffs will not be so great as was fig-a program for them which may or may and if the forthcoming industrial con-not serve their greatest needs. If the forthcoming industrial con-Altogether this organization will fill public knowledge of the situation it stuffs depends very largely on the a long felt want in the agricultural will render a worthy public service. quantity taken for export, which is dif-night, when the construction employ-

Memory Day

of Clinton county, a pioneer Farmers' of other commodities usually counted IN addition to its Club Worker, and an early president as necessities but the immediate need other reconstruct of the state organization. During for which is not so vital.

troubles, the those years Mr. Daniells has been inthrough their union officials. Appar- mation. As a result public as well as ently the issue is the recognition of individual attention has been directed ON the center the union by the steel corporation— to the better care of our rural cemeday has been fittingly observed by A peculiar phase of the situation is public exercises. As an aid to those the better for their perusal. Let us

> THE season for the early movement Bean of the bean crop is Marketing close at hand. Bean Prospects growers must soon

decide whether they

and should receive the active support intelligent public opinion may properly owing to the financial condition of forof every progressive farmer in the place the responsibility for the bring eign countries and the low state of forstate. The plans for the initial mem- ing on of an industrial crisis which eign credit as indicated by foreign exbership campaign which will be start- will entail the idleness of thousands, change rates. The industrial situation ed in Oakland county next month, have and mayhap millions of men, at a time in this country is also likely to become already been made and will be pre- when the world needs the product of a limiting factor in domestic consumpsented in detail in a future issue. In their industry as it has never needed tion, since if a general condition of forced unemployment in industries depending upon steel as a raw material T is now some should result from the steel strike this years since "Mem- cannot but have some effect upon the ory Day" was first food-stuff market. This influence, howsuggested at a meet- ever, is not as likely to affect staples, ing of the Michigan such as cereal grains and beans, which State Association of are the cheapest source of necessary Farmers' Clubs by Mr. J. T. Daniells, foods, as They are to affect the value

country is now con- defatigable in his efforts to secure the tain to be discounted in the price at fronted with a strike general recognition of September 30 as which early beans will be purchased of the workers in a "Memory Day," to be given over to by bean dealers. Hence the holding The organized steel the memory of departed friends, and of good beans for later marketing will workers went out last Monday, osten- to the decoration and care of their not be a speculative enterprise from sibly because Judge Gary, president of graves, as Memorial Day is devoted this cause. The present industrial sitthe United States Steel Corporation, to the memory and honor of our sol- uation, coupled with a nominal market would not meet their committee in dier dead. Through his untiring ef- for old beans, will undoubtedly influconference. The published declara- forts, the day has been officially rec- ence bean dealers in making as low a tion of the strike leaders is not spe- ognized by legislative act, and public price as possible for the new crop, cific as to the grievances regarding attention has been repeatedly directed which means the lowest price at which which the men desired to be heard to its observance by executive procla- sufficient beans will move to fill their in holding good beans for a later market will be small and the conservative pages of this is the old issue of the closed or the open teries, and in many communities the marketing of the crop during ensuing factor which will operate wholly to the benefit of the bean growers as a class.

The market for old beans has been largely nominal due to the small export demand, but the crop is very well cleaned up and the situation would tion which is built along exactly simi- ence called by the President for Octo- use in public exercises in observance seem to warrant bean growers, who lar lines, with the County Farm Bu- ber 4, while President Wilson is known of the day. This year he has secured are in a position to hold their crop for which will give them cost of production plus a reasonable profit.

News of the Week

Wednesday, September 17. THE United States asks the Japanese government to fix a definite date for the return of Shan-tung to China.—The sanitary situation along the Texas coast following the tropical hurricane which swept over that dis-trict is already very acute.—President Wilson signs an act incorporating the American Legion, an organization of veterans of the world war.—The trial of the "big five" packers for alleged violation of anti-trust laws is announced for Monday.—Minnesota enacts a law providing a bonus of \$15 for each month of service for soldiers, sailors and marines, the minimum to be \$50.

Thursday, September 18.

THE siege of Fiume by Jugo-Slav forces cuts off food supplies from all directions except by sea.—France decides to send 10,000 soldiers to Armenia to aid in a campaign against the Turks.—Heavy rains add new hard-ships to refugees on the Texas coast. ships to refugees on the Texas coast. —Rumors are persistent that the pres-ident of Peru has been assassinated. —The Rumanian army has begun to withdraw its forces from Budapest, Hungary.—The steel workers definite-ly decide to quit work Monday morn-ing ing.

Friday, September 19.

POLISH forces in Russia force back Any reader who pauses to consider tion at a time when industrial work- ing favored securing it without rain the possibilities for the good of such an ers are demanding cheaper foodstuffs. damage in most bean growing sec-organization will at once see that they Obviously the public, which will be tions. A careful survey of the Mich-are almost limitless, particularly when so seriously affected by this industrial igan crop indicates that it will be con-affiliated with similar organizations in struggle, are entitled to full informa- siderably below normal in yield, and the points at igans and are sunk.—The toll of the to the rest are store indicates are the public with similar organizations in struggle, are entitled to full informa- siderably below normal in yield, and the points at igans are the points at igans are the points at igans are the points at igans and are sunk.—The toll of the to the rest in a great national farm- tion generating the points at igans are the points at igans are the points at igans and are sunk.—The toll of the to the rest of the points at igans are the points at igans are the points at igans are the points at igans and are sunk.—The toll of the to the rest of the points at igans are th

Saturday, September 20.

PRESIDENT WILSON speaks to an

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Right to Bargain Collectively on Trial By Dr. W. O. Hedrick of the Economics Dept. of the M. A. C.

on milk. Success in keeping a regular The benefits from collective bargain- Labor unions were convicted several toes for its patrons but made no use combining to maintain a uniform price perfect form. cept no other.

duct to a comparatively few buyers ble over details. are organized and are represented by savors of "price fixing," of "combina- the Michigan Potato Growers' Associ- known as the secretary of the associa-a single agent. When this is true col- tion in restraint of trade," "monopoly ation of Cadillac which is one of the (Continued on following page).

the criminal court of Chicago association of producers and an asso- lic opinion always condemns these tomary farmers' cooperative selling asthere was commenced the prose- ciation of middlemen or buyers acting things and it is therefore not difficult sociations anywhere to be found. This cution of members of the Chicago Milk as units in buying and selling milk to find grounds for prosecuting collec- association now has many thousands Producers' Association, charged with makes collective bargaining in its most tive bargainers as is being done in the of members and last year sold more

price in this way is secured by collec- ing are, first, that it stabilizes the bus- years ago of being combinations in of collective bargaining. In fact it did tive bargaining and since prosecutions iness in which the farmer producer is restraint of trade in the case of the no bargaining at all. It simply sold like that in Chicago are now also in engaged. The milk producer, for ex- Danbury Hatters and were only reliev- potatoes for its members from day to progress in Cleveland, New York and ample, through his organization can ed from further prosecution by the day at the best prices which prevailed Minneapolis, it may be well said that see to it that not so much milk is pro- adoption of the Clayton Amendment to upon the market, or in other words, collective bargaining is on trial. The duced as to glut the market, that there the Sherman Anti-Trust Law. The ser- the best price which the wholesalers term collective bargaining grew into is no price cutting among his associ- ious hindrance of illegality in the in- would offer. The benefits from memfamiliarity through its use by labor ates, thus starting ruinous competition stance of farmers is being remedied bership in this association arose from unions. For years these groups have and that through advertising his pro- in the states of Illinois and Minnesota getting the benefits of wholesale shipintrusted the annual fixing of their duct may be properly set before the recently through the passing of laws ments from the railroads and from wages with employers to a single rep- public. In this way the dairyman is legalizing collective bargaining by keeping for the potato growers the resentative or agent and the members assured a fair price for his milk, is farmers. In the federal congress fur- profits which usually have gone to the of the unions have pledged themselves warranted in enlarging his business in thermore, the so-called Copper-Hers- local shipper. In short, the Potato to accept the wages so fixed and to ac- a normal way and in putting in an man bill provides for collective bar- Growers' Association, like the cattle equipment which lowers the cost of gaining among farmers. It seems there- shippers, the elevator companies, co-The practice of collective bargaining production to a minimum. Second, the fore, that there is a widespread belief operative creameries and fruit associamong farmers has had its chief use organization necessary for collective that collective bargaining has a much ations sold upon the open market at a thus far among farmers engaged in bargaining furnishes the farmer with broader field of usefulness among the comparatively fixed price and were sat-These farmers are the means of getting a just price for farmers than was formerly thought. more unified in their interests than his products. Indeed, the buyer him- The question now arises as to how better shipping opportunities and from most other farmers since they produce self frequently finds these organiza- collective bargaining affects the ordi- getting rid of the local shipper. for a single local market, are in part tions of producers extremely helpful. nary farmers' cooperative associations. How different from all this are the licensed to so produce by city boards In the case of the milk business just These associations have become very business plans of the Detroit branch of health and produce a product which mentioned the buyers are able to deal numerous in recent years, especially of the Michigan Milk Producers' Assois too perishable to enter into general at once and for all with the whole mul- among fruit growers, creamery men ciation. This organization is formed trade. In short, the milk producers of titude of dairymen from whom they and cattle shippers, and the doubt is under the same law as that of the Poany city have a practical monopoly of buy. They are able to get-these dairy- sometimes expressed as to whether tato Growers' Association, has as many that city's milk trade, and on this ac- men to discipline themselves as to the these can live if the right of collective thousands of members and sells many count are able to bargain as a single quality of milk, times of delivery, etc., bargaining is denied them. man. They are helped in this by the through their organization and this It is plain on the other hand, that nually, but all through collective barfact that milk producers sell their pro- saves the buyer a vast amount of trou- many of these associations have noth- gaining. The members of this associ-

times, as in Detroit, these distributors lective bargaining seems to be that it of doing business. Take, for example, and speaking through a single agent

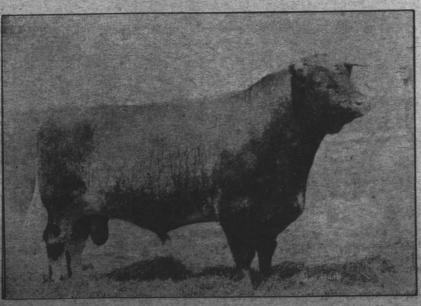
N the fifteenth of September, in lective bargaining works perfectly. An prices," etc. The law as well as pub- largest and most successful of the cuscases of the cities mentioned above. than two thousand carloads of potaisfied with the gains which came from

millions of dollars worth of milk aning to do with collective bargaining of ation agree among themselves as to known as city milk distributors. Some- On the other hand, the evils of col- any sort under their present methods how much they want for their milk

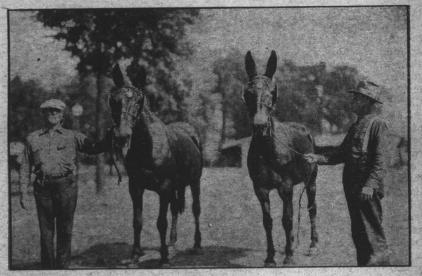
Some Prize Winners at the State Fair



Grand Champion Holstein Cow is the Property of John A. Rinke.



Chas. A. Prescott & Son's Herd Bull Won First in Aged Bull Class.



A Pair of Prize Winners Owned by Hubbard & Son, of Clinton County.



The Grand Champion Steer also from the Prescott Farms, Sold at 43c per Ib.

News of the Agricultural World

SCULLY REPORTS ON CONFER-ENCE AT WASHINGTON.

the National Board of Farm Organizations at Washington, D. C., Sep- CANADIAN DAIRYMEN FACE MILK than potatoes. tember 16-17, a program of unusual interest to the farmers of America was carried out in detail. Representatives $A^{\rm N}$ order has been handed out by of some twenty or more different farm $A^{\rm N}$ the fair-price committee of Torwere present.

S. Kenyon on "Tractor Legislation," ario. was considered of great importance. the time. Senator Albert Cummins, question, was drawn up at a private the measure and weight. chairman of the Senate Committee on meeting of the consumers' section of Many of them entirely ignore the counsel for the railroad brotherhood, ducers for permission to make a sub- their fruit and vegetable packages. spoke on the Brotherhood Plan. Sen- stantial increase in the wholesale I have turned parties home this seaator Irvine L. Lenroot, chairman of price of milk delivered in Toronto. son with over ten thousand of the four-George A. Post, chairman of the Rail- them to arrive at a satisfactory decis- claimed in the baskets. road Committee, Chamber of Com- ion in the matter, merce, ably addressed the conference

ment ownership.

to the farmer's rights of collective bar- have plenty of milk. gaining was ably discussed by Senator Arthur Capper and Congressman Hugh S. Hersman. Both these gentlemen the farmer's rights in collective bargaining. It was my personal privilege to confer with Senators Newberry and Townsend, and am pleased to report their assurance that they would support suitable amendments for the protection of the farmer's rights in the Clayton Anti-trust Act.

I also have the assurance of several of our members of the house of representatives that they likewise will become personally interested in the support of any measure protecting the farmer's rights in this particular question.

I might say the conference as a whole was of unusual interest, and a good attendance of representative It was hard, so hard to let them go farmers to the extent of about two Dear little ones, we loved them so. hundred and fifty in number, from the most important agricultural sections Here the young, the fair, the beautiof the country were present. State They filled our home with glee farm bureau organizations were well represented by delegates from several

agricultural people of our great commonwealth, and is significant of the Here are others we watched from year And over the mounds that we love. fact that a most thorough organization fact that a most thorough organization to year is necessary among the farmers of With a parent's love and pride Michigan, if we expect to hold our representation with the farm organizations of similar states.

CHAS. B. SCULLY. Representi g Michigan State Farm Bureau.

EIGHTY DOLLARS A TON FOR GRAPES.

interesting to compare this price with the price of grapes before the war, when they sold freely at from \$22 to 'Ere they entered that phantom boat.

AT the Semi-annual conference of about \$30 a thousand, is now \$80.

· PROBLEM.

red by far, Senator Lenroot's plan of in the reach of all families, especially plainly on the package. control of the railroads after govern- poor people. Milk is essential for the If John Smith is shipping apples in growth of a child, and if we do not bushels he should mark them as fol-The all-important subject pertaining want a stunted population, we must lows:

CONTINUES TO GROW.

gave their ideas on required amend- THE Michigan Potato Growers' Ex- should be marked thus: ments to the Clayton Anti-trust Act Change continues to give evidence Mich. Std. Ba change continues to give evidence (S. 845) (H. R. 7783). It appeared to of splendid vitality and possibilities of be generally conceded by representa- becoming one of the really big cooptives of congress, that amendments to erative enterprises of the country. this act were necessary to fully protect Since the annual meeting in July over should be marked on the package, also men of Detroit, who likewise have

\$25 a ton. Labor, however, costs just a score more of local organizations the name of the packer, and the addouble what it did in those days, and have been added. Not only this but dress. the price of baskets which used to run many of the local organizations have

WARNED.

organizations from the eastern, west- onto prohibiting an increase in the IN reply to your letter of recent date Our intentions are to educate the ern, southern and middle west states price of milk to consumers for forty Inquiring as to where the majority grower on how to pack, grade and days, and this order has been made ef- of the violators of the fruit-grading mark his fruit so he will not get into An address from Senator William fective throughout the province of Ont- and packing laws of the state are fail- trouble, but if he will persist in vioing to comply with these statutes, will lating the law we will have to enforce A questionairre, copies of which say, that a large percentage of the its provisions. Also a discussion on railroad legisla- will be sent to producers and retailers fruit growers do not fill the packages tion occupied an important portion of asking for information on the milk properly; in other words, they skimp

Inter-state Commerce, addressed the the Fair Price Committee, September marking of the variety, the grade, the conference on impending railroad leg- 19, to consider what steps to take in minimum size of the apples, and fail islation. Mr. Glenn E. Plum, general dealing with the application of the pro- to even put their name and address on

spoke on the railroad question. Mr. tion requested is essential to enable green, or not having the quantity they

There is a difference between pack-Major J. Lewis Duncan, chairman ing fruit and just throwing it into a on the Chamber of Commerce Plan. of the Fair Price Committee, explain- container. We advise all growers and At the conclusion of these exhaus- ed that the situation from the consum-.packers to fill their containers well; tive and masterful addresses, a discusseries standpoint was discussed. The fill the packages as full as you would sion followed by the members of the view taken, he said, was that "it is es- want if you were the buyer, mark the conference, in which it appeared that sential for the city of Toronto to have amount the package contains, and the agricultural representation prefer- an ample milk supply at a price with- stamp or print your name and address

Mich. Std. Bu. Baldwin's Grade B. Min. 21/4 in. JOHN SMITH, Bangor, Mich. If he ships in barrels each barrel

Mich. Std. Barrel. N. Spy. Grade A. Min. 21/2 in.

JOHN SMITH, Bangor, Mich. The grade of pears and peaches

"Memory Day" By Mrs. A. J. Foster

Summer's beautiful reign is over

Summer's beautiful reign is over Autumn days slipping fast away Bring to us September thirtieth Our own, our precious "Memory Day" A day when we gather to beautify The resting place where our dear ones He lie Here quietly rest the dear little ones Whose arms our necks entwined

Soft, velvety cheek were prest against ours

loving kisses exchanged for Warm, mine

of our leading agricultural states. In my judgment, this was a confer-ence of pre-eminent importance to the ence of pre-eminent importance to the Hearts and home grew strangely sad.

drear Quivering lips grew white as we left them here.

above

tale

less be But we will scatter sweet flowers in

But the Soul returns to its maker-

today

The whistle, the song, the merry laugh Were like sweetest music to me. May wave Like fond, weeping mourners, bending over the graves

> flowers God's silent message from above And strew them over the stranger's

grave

Let love with nature ever vie

A bushel of pears, peaches or apexclusively contracted with the cen- ples should be packed from the bottral exchange to handle other products tom of the bushel up, and filled so that when the cover is put on it will have to be pressed down tightly so

VIOLATORS OF FRUIT LAWS ARE that all the fruit in the baskets is firm in its place so that it will not "rattle" around in the basket. Our intentions are to educate the

R. F. BROWN, State Fruit Inspector.

FOOD PRICES LOWER ALL OVER COUNTRY.

R EPORTS to the Department of Jus-tice from twelve states indicate there has been a decline of ten to fifteen per cent in food prices since the time the fair-price committee began the Senate Committee on Railroads, The committee feels that the informa- quart baskets of grapes, for being their work. From four states have dicating a decline of two to five per cent. Virtually no reductions in clothing prices have been noted.

The reports on retail food prices were said to have been from cities and counties well distributed throughout the country, and the information is believed by officials here to be a fair indication of what is going on everywhere. They think that results now becoming evident will be cumulative as the season advances, new declines in wholesale prices being reflected in retail prices and additional reductions coming from the campaign against hoarding and profiteering.

RIGHT TO BARGAIN COLLEC-TIVELY.

(Continued from page 371). tion, they periodically bargain for prices with the agent of the milk middleagreed among themselves as to the price they will pay.

This is collective bargaining in farm products and it is made possible because the milk distributors of Detroit have a monopoly of their business and Here a marble slab tells the oft told the milk producers in the Detroit area have a monopoly of milk production Of a tangled wood or a blood-soaked for Detroit, and this makes collective where a soldier brave, his life-blood draganing possible. Barganing bostile. Barganing bostile. gave That Freedom and Peace to the world er of which could guarantee to the other the price agreed upon among its might be saved. other the price agreed upon among its His grave over there may, neverthe own members would not be collective bargaining. It would be rather, an idle waste of time and words deservhis memory. Dust to dust 'neath this sacred sod ing the name of chatter instead of bargaining. The Detroit milk distributors And who, O! who can surely say They have not been ministering spirits argely because of the high outlays monopolize Detroit milk retailing very which have to be made by a rival com-Then plant trees and shrubs that they pany in order to duplicate the present plants and routes. The Detroit milk producers monopolize their field be-And gather the flowers, the beautiful cause milk cannot, owing to its perishability and to board of health rules, be bought from any other sources than from these eight thousand producers. A price agreed upon therefore between these bodies will stick and may be properly fixed by collective bargaining.

With a parent's love and prideLef love with nature ever vieproperly fixed by collective bargaining.We saw them enter the arena of lifeThis "Garden of graves" to beautify
Autumn days will grow cold and chill
The songsters gone, all nature still.properly fixed by collective bargaining.With loved ones by their side.The songsters gone, all nature still.
The beautiful snow came swirlingcollective bargaining has many ad-
vantages, beyond doubt, for farmers. down Tucking a white blanket over each lowly mound dowly mound Here, too, are the parents, tenderly loved Heaven's richest blessing to guide us Heaven's richest blessing to guide us lectively, the entire supply of which Gone from the earth home to dwell in O! Memory Day! precious Memory are under the complete control of the An American fruit buyer is in the district of St. Catherines, Ontario, offering \$80 a ton for grapes. It is interesting to compare this price with the price of grapes before the war, when they sold freely at from \$22 to to the tot of the the price of grapes are under the complete control of the farm organization which tries to bargin the bargin the price of grapes before the war, when they sold freely at from \$22 to to the tot of the tot of the price of grapes are under the complete control of the bargin to dwell in the earth home to dwell in that other to the tot of tot o SEPT. 27, 1919.



Farmers' Marketing Organi zations in Action

R. E. Morrow, of the Antrim County Farm Bureau Gives a Close-Up View of Successful Cooperative Associations in His County

any county in the state at the present ceive something like a profit on their time. We have eight towns in the hard labor. They knew that if they county and have eight associations. could market their produce without We also have a great many of our men giving the lion's share to the produce who live in the county as members in dealer, there would be no trouble in associations outside of our county, and getting production. many of them are officers in the outside associations.

ous associations was called in Trav- tion of all of the associations in the erse City in August of last year there northern part of the state. These aswere just thirty-three representatives sociations are all federated now into of associations from Antrim' county the Michigan Potato Growers' Exand two were the presidents of the change. To Mr. Tennant we owe a Rapid City and East Jordan Associa- great deal, as he was the power tions respectively. There were twelve which made possible this federation counties represented at this meeting which has done more for northern at which time the Michigan Potato Growers' Exchange was organized.

We are proud of the fact that we had so large a part in the organization of this, the most successful association in the United States for its age. The business done by this Central Exchange was larger the first year than the second year's business with inany other association at three years of age in the United States.

wise selection of the board of directors two are receiving cream at their warewhich were chosen at this meeting. houses. This cream department is one All of this board are farmers and it of the most valuable, as the farmer goes to show that farmers can run a can see his cream tested and knows large business if necessary. At the that there is no incentive for the man-first annual meeting of the Central ager to under-test his cream. On ac-Exchange all of the old directors except one, who would not allow his the cream market is much higher name to run, were elected for the com- where we have the associations than ing year by a unanimous vote of the at points where there is no competidelegates.

tion was the first association in north- department was started. ern Michigan to be organized under the standard plan, by which all of the locals belonging to the Michigan Potato Growers' Exchange, were organized. This is the plan recommended by the United States Bureau of Markets as the one which is least liable to fail. Of all the plans of organization this is found to be the best and safest, as there is no speculation in its operation.

The Bellaire Cooperative Marketing Association was the second one organized, the Elk Rapids was the first to ship a carload of potatoes through the Central Exchange at Cadillac and the association at Elmira shipped the largest number of cars per member of any in the federation. This local has seventy-three members and shipped seventy-six cars of potatioes during the season last year.

venture for this part of the state, they ples when the unorganized territory were and had been looking for for years, taking eighty cents per hundred for Through the efforts of the County the same kinds and grade. Also at Farm Bureau, the United States Field Alden last fall private buyers were Agent in Marketing, Hale Tennant, paying \$1.00 per bushel for potatoes and County Agent W. C. Cribbs, we for several days which we are certain were able to put these associations on would not have been paid if no assothe map and get them to working in ciation had been there. Those same record time.

this county, he was notified that if he were fortunate if they received fifty could help the farmer market his pro- cents per hundred for them. These duce, he would be doing a great thing operations are the ones that put the for the farmers and if he could not money in the pockets of the farmers. they had no use for him. They did (Continued on page 394).

E believe that Antrim county is not wish to grow two blades of grass the most thoroughly organized where one grew before unless they county along marketing lines of could market the one blade and re-

Mr. Hale Tennant, of the United States Department of Markets, gave a When the first meeting of the vari- great deal of his time to the organiza-Michigan than all the rest of the development for many years. No land is a desirable place to live in, if the markets are in an unsatisfactory condition.

The eight associations in this county have all come through the year in very good shape and are going into creased force. They are planning to handle many more things than they The success is largely due to the did last season. All of them except ager to under-test his cream. On account of this plan of handling cream tion of this kind. The raise came at The Central Lake Market Associa- every point just as soon as the cream

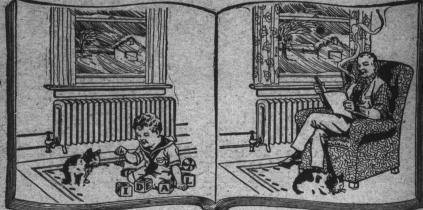
> When these associations were first started the members only pledged their crop of potatoes, but after running for one year they are nearly all pledging their entire output of farm crops.

> This pledging of crops to the association and the giving of the \$100 noninterest collateral note to guarantee that the member will sell through the association is the foundation of success for all cooperative associations. If a member sells outside of the association he has to pay the same commission on the crop as if the association did the selling, so the association is going to have the finances to run anyhow.

The members in pledging all of their produce are showing their satisfaction in the operation of the locals.

Last fall the association at Alden While these associations were a new was able to get \$1.20 per bushel for apneeded not more than forty miles away were potatoes were loaded out after the When the county agent arrived in first of June this year and the buyers (Continued on page 394).

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IDEAL Boilers will supply ample heat on one charg-ing of coal for 8 to 24 hours, depend-ing on severity of weather. Every ounce of fuel is made to yield ut-most results.

-will give daily and yearly heating service until they and you reach old age

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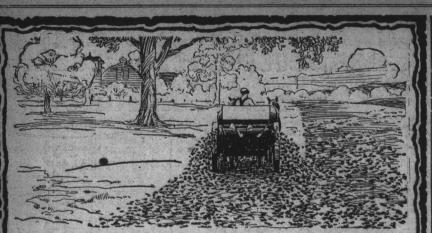
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Story of Two Corn Fields

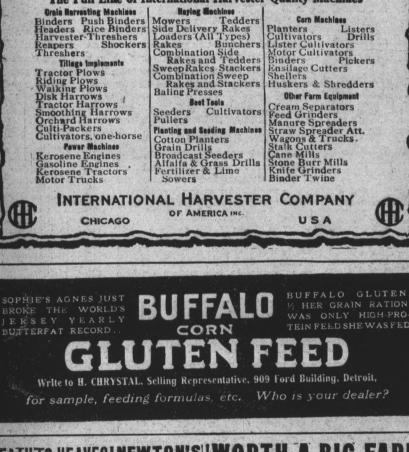
IN 1916 two 40-acre fields of corn grew side by side in Illinois. On one an International spreader had been used consistently for three years.

spreader had been used consistently for three years. The other had seen no manure for seven years. That was the only difference between those two fields. One produced a matured crop running just over 80 bushels to the acre, the other averaged barely 30 bushels of soft corn. If both crops sold at the same bushel price, the fertilized field produced \$2,000 more than the unfertilized one. Was that spreader worth \$500? Yes, because just scattering manure on a field will not accomplish the same results. That field of 80-bushel corn was properly fertilized by a man who knows his business. He feeds his crops a balanced ration. This cannot be done without a good, wide-spreading manure spreader. It is being done by these spreaders:

Corn King - Cloverleaf - 20th Century

It pays to study fertilizing, to know what to do and to practice what you know. See the local dealer or write us for a copy of "Feed Your Hungry Crops" and full information about our spreaders, or about any other machines in the list below:

The Full Line of International Harvester Quality Machines





Vegetable Growers' Association

some of the oddities that Dean Alfred could not in any way repair the injury Vivian of the Ohio State University, already done. The particular kind of Columbus, described Tuesday evening stink bug we found was a small one in his lecture on "Vegetable Growing that burrowed down into the crown of in Foreign Countries." This discourse the plants and did great damage bewas illustrated with stereopticon fore it could be noticed. slides made from photographs taken in "Un our experiments with fertilizers Germany and England.

known remedy. The treatments of in- not adapted to his requirements." sects, especially in the case of agricul- "Developing Improved Strains of Vaketing.

the blight.

crop as the imported seed.

"Another thing we have been work- men and plant breeders." ing on this year is onion thrip, which Prof. E. O. Fippin, of Cornell, disof soda.

to deal with this year has been that

ABBAGES growing on stalks ten of stink bugs destroying asparagus feet high, nine-pound turnips and beds. We found that we could drive eighteen-pound cauliflowers were it off with Black Leaf forty, but we

China, Japan, the Philippine Islands, we have used acid phosphate and bone flour on tomatoes and obtained some At the Wednesday morning session wonderful results. I have never seen Prof. A. H. MacLennan gave a brief such tomatoes as we obtained from outline of the experimental work in the use of four hundred pounds of vegetable growing in Ontario. "In re- bone flour and eight hundred pounds gard to some of our experimental work of acid phosphate to the acre. In figin Ontario," said Prof. MacLennan, "I uring the quantity of phosphorus in do not like to go into it too minutely these materials do not get the bone because we have not been able to flour and the bone meal mixed for the gather the results from some of our phosphorus in the bone flour is in a work with fertilizers. We have found more readily available form. The dry that it is better to do our experiment- weather this year has made some of al work only at the college for you our experiments with fertilizers rather cannot expect a farmer to furnish you unfavorable, but we are going to conthe land under present conditions and tinue the work until we can get our prices unless you can assure him of growers to using them more intelli-good results. We have our work di gently. What we aim to do is to get vided so that one of our men confines each man to using the different matehis work to the study of insects. He rials and to do his own mixing and studies their life habits and character- thinking about the proper proportions istics and how to deal with them and to use on his different soils and crops to investigate the merits of every instead of buying ready mixed goods

tural colleges, to be done most eco- rieties of Vegetables," was discussed nomically and efficiently must be done along the following lines by Prof. J. by a man who understands the habits W. Crow, of Guelph, Ontario: "There of the insects and the proper time to are great possibilities in developing apply the remedies to do the most new and improved varieties, and I begood. In the case of cabbages and rad- lieve that most of you will agree with ishes we found that the plants proper me that the variety, next to the man, ly treated matured from five to ten is the most important factor in gardays earlier than those not treated, dening. It is well within the mark to which is an important feature in mar- say that in the case of many vegetable. crops the yield could be increased "Celery blight is more common than from twenty-five to fifty per cent by most people believe. We find that to breeding. Our work was begun with combat the blight successfully it is the idea of improving the standard vabest to start with the plants at the rieties grown in our own territory, seed-bed stage and give them an ap- partly because of the necessities of plication once a week, and if done that producing our own seed as a war-time way it will be likely to prove more measure. We have developed some satisfactory than when done every ten excellent strains of several vegetables days. We are using more of the knap- and in some cases we have had to resack sprayers than usual and find port failure, but through our mistakes them more satisfactory than larger we have profited greatly and feel that machines. We use Black Leaf forty for some of our work will bring about great improvement. Our experience "The results of our potato seed ex- suggests that a variety that has shown periments justify the use of seed from very strong disease resistant powers Northwestern Ontario which gives bet. in one locality will fall down when it ter results than seed grown near our is moved to a different locality, so we farms. The home-grown seed shows view the work of breeding for disease a much greater presence of disease, resistance as somewhat of a local prob-The benefit from the northern grown lem. It is my opinion that the best reseed also comes from the greater vigor sults in plant breeding can be secured due to the immaturity of the seed at by making it a state or local problem. digging time. It has been pretty thor. It will be necessary to do this if we oughly demonstrated that seed that is are to perfect varieties adapted to lotaken from a field growing green will cal conditions. In breeding for special give better yields than seed taken purposes we believe that there are limfrom a crop that ripens before it is its which we cannot exceed in combindug. The northern grown seed is im- ing good qualities in one variety, and mature at digging time, consequently for that reason we must sacrifice some the sprouts develop rapidly and the of the desirable qualities in order to plants grow vigorously and are more develop some of the others. It is also free from disease. In some of our ex- important that we work toward a stanperiments our home-grown seed yield- dard type of vegetable adapted to our ed only about one-fourth as large a markets, for there seems to be a wide diversity of opinion even among seeds-

has practically ruined the entire Ont- cussed "The Use of Lime and Com ario onion crop. One of our largest mercial Fertilizers with Vegetable growers reports less than one-third of Growing," from the following angles: a crop. Where we were prepared for "It is my purpose to emphasize the it we were able to save our crops so fact that we must have a knowledge that they would make fairly good sec- of the fundamental requirements as ond grades by using seventy-five to soil, climate and other environments pounds of nitrate of soda to the acre. of the different crops, as well as their The trouble with combating this dis- varietal differences. Vegetable growease is that growers do not recognize ing is the most intense branch of agriit until the insects have eaten off the culture, and the more intense any busstems. One man saved his crop by iness becomes the more attention making three applications of nitrate must be given to the small details of management. Vegetable crops are "Another new problem we have had closely connected with the humus con-(Continued on page 378).

SEPT: 27, 1919.

7-357



SEPT. 27, 1919.

A Maxwell Truck you buy this Month will make you a present of its Total Cost in One Year.

More miles per gallon More miles on tires

IVE-thousand-dollar truck construc-Five-thousand-dollar truck tion. guarantee. Worm Drive. 10-foot loading space. Electric lights and generator. 2400 pounds-we built it right to get it lightto save tires—to reduce gas consumption -to climb hills-to take bad roads-and to keep repair bills down.

For long hauls and short calls. Selfsupporting. Amateur proof. Chassis \$1185 f. o. b. Detroit.

If you like, take your time with the payments and let the Maxwell buy itself on the run.

Pays its way from day to day.

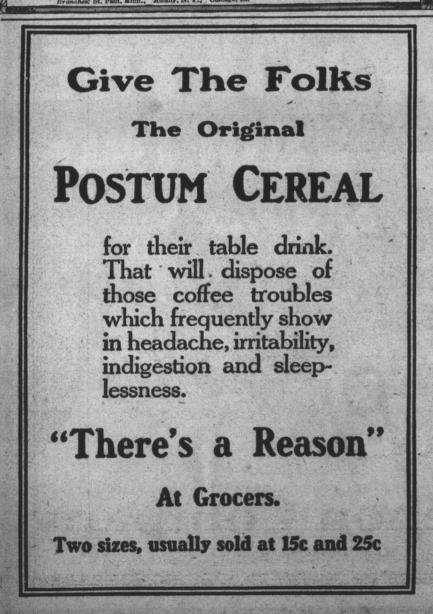
MAXWELL MOTOR COMPANY, Inc. DETROIT, MICHIGAN

Louden Litter Carrier piece bays a bigg ofit that



224-Page Illustrated Catalog Sent Postpaid—No Charge or Obligation Write for this book. It shows the equipment which will meet your pecial needs and prove profitable to you—including Stalls, Stanch-ions, Feed and Litter Carriers, easily sterilized Water Bowls, Animal Pens of all kinds, Hay Unloading Tools, Power Hoiats, Barn and Garage Door Hangers, Ventilators, Cupolas—Exeruthing for the Barn. If you are sains to build or remodel we would be pleased also to send you "Louden Barn Plans," a 112-page book, not a catalog—devoted entirely to barn building. It will relieve you of worry and trouble and save you money. Our barn planning special ists are also at your service free of charge, for suggestions and pre-liminary blue prints, if you will write us what kind of barn you have in mind, number and kind of stock you wish to house. The Louden Machinery Company

The Louden Machinery Company 1914 Court St. Branches: St. Paul, Minn., Albany, N. Y., Chicago, III.



Our Service Department

DRAINING INTO HIGHWAY.

As we expect to make some open of from six months to one year. ditches on our farm we wish to know whether we can run these into the public road? N. H.

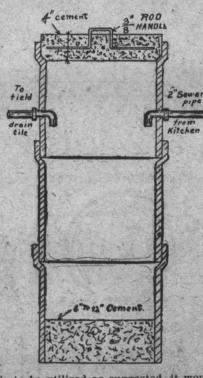
Calhoun Co. increase the burden on his neighbor the flow through the tile system, it from surface water: and though the could be arranged as it is with the water would ultimately percolate onto septic tank by conducting the flow the neighbor, one who collects water through fifty to one hundred feet of running over a wide surface and drain tile laid at a depth of twelve to casts it on the neighbor is liable for eighteen inches below the surface of damages, and the act may be enjoined. the ground. This latter plan would However, if a ditch has been establish- only be advisable where open, porous ed along the side of the road, the ad- soil is found so that the liquid could joining owner may ditch into it the quickly percolate. It would not be surface water that would eventually well to use this well as a septic tank get to it.

JOHN R. ROOD.

USING OLD WELL FOR SEPTIC TANK.

We have just completed a new well the septic tank properly with windmill and are installing run-tile distributing system. ning water in kitchen. Our old well many and are this till. was about a rod from back door, curbat the bottom, perhaps three or four feet deep most of the time. We could shut this off by pouring cement in the bottom if necessary. Would this serve bottom if necessary the purpose of running the water tron-kitchen sink into it? And from this to tile ditch connecting with tile sys-tem from field? Perhaps sometime we will put in toilet room. Would this serve for that also? I understand any tank like this must be covered air tight. What kind of cover is best for these crock? How should the pipes be placed to and from this tank so as not to disturb the scum or bacteria which, I understand, is necessary? Midland Co. Mrs. E. B. Midland Co. Mrs. E. B. Midland Co. Mrs. E. B.

danger from typhoid and other diseases pedigreed the same as other kinds of germs which bathroom wastes are like- pure-bred stock and the reasons are ly to contain. They do, however, con- obvious. It means that the breeders tain grease and other matter which and the chicks must bo marked and



be advisable to cement the bottom, ditional fee is charged. We are sure which would provide a tight chamber that you are not being held up by any in which septic action could go on unreasonable charge. About the best This method would not be as complete solution of your problem would be to as a well defined spetic tank but would have some reliable Shorthorn breeder answer very well indeed for kitchen look after your registry papers. You waste.

in a tank with a small top of this profit, but for the good of the breed, kind, it would be advisable to run sew- and they are under strict control of er pipe elbows turned down so that the breeders of the country who dethe inlet and outlet would both be be- pend upon them for reliability and low the surface of the liquid. The efficiency in keeping such matters grease will then, of course, rise and above reproach.

accumulate at the top. This accumulation should be removed at periods

There would be no objection to conducting the flow from this tank to the drain tile system on the farm. In case The owner of land has no right to it were not convenient to dispose of for all of the waste from the house for the reason that it probably would not have sufficient capacity and would not have the intermittent discharge of the contents which is considered necessary to distribute the discharge from the septic tank properly through the

There are no objections to placing ed with large crock set in one another the septic tank close to the house, pro-with cement. A little water comes in viding all joints are sealed which are within one hundred and fifty to two hundred feet of the well.

H. H. MUSSELMAN.

must be taken care of. If an old well the hens trapnested so that the producer of each egg will be known. Then the eggs must be hatched in pedigree sacks and a record kept of each chick and its parentage.

> The only way to obtain a pedigree of your stock would be to write to the breeder from whom you obtained them and find if he has been doing pedigree. work. It is our opinion that you undoubtedly have pure-bred stock but you may not be able to get a pedigree R. G. K. of them.

REGISTERING SHORTHORN HEIFERS.

I applied to the Shorthorn Breeders' I applied to the Shorthorn Breeders' Association to have a heifer register-ed. They replied that it would cost me \$10 to record her. The fees for a calf under one year are but \$1.25. This looks to me like a graft. Will you please advise me how to proceed? Sanilac Co. L. J. R.

It is the common practice of breeders' registry associations to make a higher charge for registering animals that are more than one year old. The cost of reviewing old records is much greater than is the case when young is to be utilized as suggested, it would animals are registered so that an admust appreciate the fact that reliable Owing to the accumulation of grease record associations are not run for W. M. K.

THE MICHIGAN FARMER

SEPT. 27, 1919.

AULEHIDE akickin a million feet'

GET ME FROM YOUR LUMBER DEALER

Made also in Green and Red Slate Surface Finish, as well as Shingle Style

The extra strength and service you find in **MULE-HIDE** starts with the good rags (no paper or straw) put into the felt. This good felt, is then saturated with the right kind of asphalt. The asphalt is then worked into the felt by special machinery. Our slow process and honest materials, carefully handled, are the secret of MULE-HIDE strength and toughness. MULE-HIDE is stronger-that's why it wears longer and costs you less per year than other roofings. It is to your interest and profit to look for the Mule's Head on the yellow label—At your lumber dealers.

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Announcement

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FOR FORDS

For many years Ford owners on the farm have wanted closed-car luxury without the large first cost that goes with it.

For the first time, there has been developed a practical, convenient method of assuring closed-car luxury with either a Ford Touring Car or Roadster.

It is called the USTUS Limousette

the standard body and top of your car without alterations. It furnishes just the protection

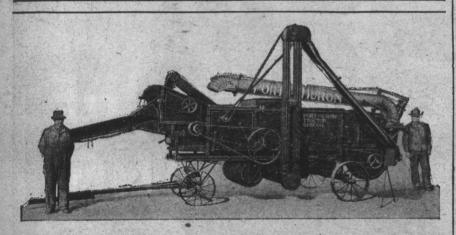
and comfort you want when going to town on cold rainy days or taking the children to school. At a light touch a roller window, at each door, of sturdy and permanent construc-tion, rolls up out of sight. You have no curtains to fuss with. It also keeps out the dust and rain and assures clear vision.

and is tailored to fit the Ford Car perfectly. Due to its unique design it may be used in connection with

USTUS Protective Covers The Dafoe-Eustice Company also makes the only standardized, guar-anteed line of protective canvas cov-ers for protecting Tractors, farm implements, haystacks, and hay cocks. See samples at the USTUS Dealer in your town or write to us for a catalog.

The USTUS Limousette weighs only 40 pounds and can be installed in an hour. The price is \$46.00 for touring car and \$30.00 for roadster f. o. b. Detroit. Ask the USTUS Dealer in your town to demonstrate its advantages. If there is not a USTUS Dealer in your coality write to your USTUS Distributor. DAFOE-EUSTICE CO., Manufacturers 1172 W. Jefferson Ave. Detroit, Mich.

Distributors J. G. HAYS SALES CO., t Bldg., Detroit, Mic



IMPORTANT NOTICE

Thresh When You're Ready

RELIABLE information has reached us that many **N** farmers this year are experiencing difficulty in getting their threshing done in time to save their crop.

Individual or Community Threshers

We have in stock, ready for immediate shipment, . grain threshers of sizes that can be operated by small steam engines—or any size gas tractor.

Give us the size and kind of your power and let us quote you on a thresher suited to your needs and power.

Wire or Telephone Your Order at Our Expense

Remember we can ship machine same day order is received.

Port Huron Engine & Thresher Co. Port Huron, Michigan

Vegetable Growers' Association (Continued from page 374).

tent of the soil and the perfect func- soil so that applying it to the plowed tions of the soil depends upon heat, ground and working it in is the most light, moisture, mineral foods, ventila- practical method of applying it. In no. tion, texture and toxic conditions. The place has lime a more important funcmost outstanding features of soils suit- tion to perform in soil management able for vegetable growing are texture than in vegetable growing. The use and tilth.

New Jersey gives the best results for tem of maintaining soil fertility." potatoes is no sign that such a type Promising New Crops for Muck Lands. of soil will give the best results in a At the outset Mrs. Fred Osborn, of different locality, for climate is an in- Ann Arbor, reminded her hearers that fluencing factor in determining the with approximately eight million acres soil requirements of crops. In a north- of muck land in the state, the subject ern climate the more sandy soils are of new crops is an important one. "Sucbest adapted for potatoes, while in a cess in the cultivation of muck land southern climate the heavier soils pro- may be likened to the achievement of duce the largest crops.

soils that have good water-holding ca- upon them. In the years I have livpacity is not appreciated by the major- ed on muck land, my problem has been ity of vegetable growers. The humus to dominate it. In our university town problem is one of the most perplexing I have had an opportunity to learn that confronts- vegetable gardeners much from educated Chinese students, in proximity to large cities, for, with and through them also from returned the passing of the horse and the com- missionaries have secured information ing of the automobile truck, the gar- on vegetables grown intensively on irdener is robbed of his usual supply of rigated lands of the Orient. One diffimanure so that he must make plans to culty an investigator will experience maintain an adequate supply of hu- is that of ordering a catalogued varimus by growing green manure crops ety of seed and to have the seedsman to plow under. Here, too, is connect- substitute another variety, which often ed the problem of growing such le- leads to disappointment." Mrs. Osgume crops as beans, peas, as well as born had an exhibit of the plants of clover, vetch and other soil-improving varieties which she had produced on crops. I know that I am not likely to her own farm. There were three vareceive a warm reception from vege rieties of Chinese cabbage, the seed of table gardeners when I advocate the which she secured from a man in San growing of green manure crops, but I Francisco. An important matter to am sure that the time is close at hand the grower of new varieties is a knowlwhen you will be compelled to adopt edge of the proper methods of preparthis method of maintaining an ade- ing these new foods for the table. Othquate supply of humus in your soils. er vegetables experimented with were As a rule, it will pay to fertilize the White Vegetable, Chinese mustard, green manure crop rather than to al- which is sweeter and less pungent low it to shift for itself, for the one than the plant we grow, Chinese wabig object in growing green manure termelon, Chinese soup vegetable, Chicrops is to produce a maximum amount nese squash, Japanese celery, a perenof humus and plant food.

growing vegetable crops we must de- uriant leaf growth, and are adapted to pend largely upon acid phosphate as muck soils. a source of phosphorus. I feel sure that potash has a necessary function in growing vegetable crops. Of course, Ezra Levin, Michigan's muck crop exif you have an abundance of stable pert, in his address on the above submanure you will already have in your ject, "who have tried to farm muck soil sufficient potash in a readily avail- land and have failed, while many have able form. Lime occupies a place in been successful on high lands. I know plant food economy equal with the ac- of a number of instances where men tual plant food elements. The organic have made the mistake of believing matter in the soil rests largely upon that our muck lands in Michigan and legumes, and the legumes rest to a in northern Indiana are similar to the certain extent upon lime. The tenden- black lands in other parts of the councy of soils is to swing toward a sour try, thinking they could use exactly or acid condition so that the lime prob- the same principles in handling muck lem is to help the soil in the range of soils as with high land soils. The funthe requirements of the different crops. damental consideration in muck land In no other type of farming does lime as in agriculture in general is the conoccupy a more important place in the sideration of climate and soil. Muck economy of plant growing than in land is generally considered frosty growing vegetable crops, which is one land, which fact must never be lost of the most intensive types of farm- sight of in selecting suitable crops. ing. Lime seems to accomplish some We do not tell our farmers to grow toof the functions of potash. It also aids matoes on muck or take any chances in helping out the phosphorus prob- with any but frost-proof vegetables, as lem. It is very important if you are cabbage, onions and celery. using any of the carbonate forms of "Our muck soils are entirely organlime to insist upon it being ground in- ic, that is they originally came from to fine particles, no larger than will deposits of vegetable matter that had pass -readily through a fifty-mesh been covered by water year after year screen.

destroy humus, but, no matter how tain an abundance of nitrogen. Sammany times it may be reported, it is ples will run 1.5 per cent nitrogen. not so, for there is no possible de- The problem is to so handle the land struction of organic matter by the use that the nitrogen will be released as of caustic lime. On the practical side needed. It is not necessary to plow, caustic lime is used by manufacturers down cover crops. It is found that of sugar, and for removing hair from muck soils under cultivation change in leather, so that the question of decid- character in three years. The only dising between caustic lime and carbon- tinction we make in our Michigan ate of lime is purely a matter of cost muck lands is the woody muck and the and convenience. But caustic lime, sedgy or mossy muck. We find that it when conditions are favorable, has takes longer to break up the woody greater possibilities for soil improve- muck than other muck. However, there ment than carbonate of lime. Small are just as many different types of applications frequently are preferable muck lands in the state as there are to the use of larger amounts. Lime kinds of high lands. should be thoroughly mixed with the

of lime must be regarded as a part of "Because a particular type of soil in a scheme to develop a permanent sys-

fame; some are born with it, some ac-"The importance of well-drained quire it, while others have it thrust nial, Mikado or Korean radish and Chi-"While bone meal is excellent for nese radish, all of which produce a lux-

Muck Land Problems.

"We know of many gardeners," said

until we have a great big silo, as it "Caustic lime has been reported to were, of organic matter. They con-

(Continued next week).

THE MICHIGAN FARMER

11-379



ON August 28, 1919, there was convened a meeting at Albany, New York, of many of the State Commissioners of Agriculture from the middle and eastern states, together with the official entomologists from the same district and the chief of the United States Bureau of Entomology with several of his experts. Altogether, fifty-eight official representatives were present. The meeting adjourned about midnight and reconvened at Boston early the next day.

The object of all this get-together was to consider the recently imported European corn-borer which is now es tablished in our country, and to get acquainted with it in the field.

Visits were made to Schenectady and the surrounding country and to the fields and field laboratories about Boston, in order that the specialists from other states might become acquainted with the appearance and work of the pest, that it may be recognized as soon as it appears in new localities.

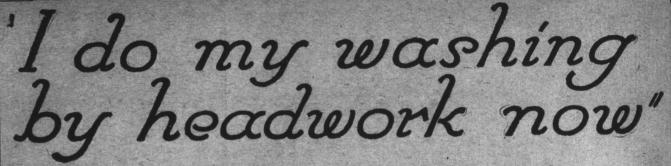
It is the belief of the writer that this new pest from overseas is the most serious menace that has as yet threatened the agriculture of North America, and of course, if North America is invaded, South America can not hope to escape. The pest bores in corn, tunneling in the stalks and in the cobs, and is capable of being shipped in corn on the cob to new areas with the greatest of ease. Furthermore, it works almost equally well in a great variety of weeds and almost any plants having woody stems, like smartweed, dahlia, broom-corn, pigweed, ragweed, and all the rest of the common things found about edges of fields The pest is already thoroughly established in over fourteen hundred square miles in eastern Massachusetts and has recently spread over into a little of New Hampshire. There are also eight hundred square miles in New York infested. The boring is done by a small naked caterpillar or "worm," which pupates in the stalk, and changes to a moth, capable of flying many miles. There are two generations each year and the female moth may live over a month, giving her time to make a long journey before death.

It would seem that the insect has obtained a good start already, but after all, two thousand square miles, or perhaps three thousand, is a small area when compared with the area of the United States, and when we think of the permanent injury which is sure to result when the pest gets into our real corn growing states it seems smaller still. There seems to be no remedy thus far short of burning the plants entire, stalks, stubble and all. It is hoped that anyone finding sus-

pected borers in corn will send in specimens to the entomologist at the experiment station, East Lansing, Michigan, and not only will he send them, but that he will pack them securely in a tight tin or wooden box. Send some of the stalk with the borers inside, packed so that they can not cut their way out. They can cut through paper and thin wood so use tin if possible. They spread very rapidly so do not delay more than long enough to make the sending safe,

Furthermore, the destruction of the pest in the states already invaded is a national affair, so it is well worth while for anyone interested in corn, beef, milk, hogs, leather or other products depending on this, our great American crop, to back up congress in making ample provision for the suppression of this really serious pest. R. H. PETTIT,

Entomologist of Experiment Sta.



"For all I need to do, after putting the clothes and water in the tub, is to press the pedal with my foot to start the engine, and the washing begins. "When it is done, unlatching and lifting the lid stops the washer and starts the wringer, then I merely feed the clothes through and refill the tub.

"And while the second batch is washing, I can keep the wringer going too, and wring from rinse to blue and blue to basket. "Just repeating that operation disposes of the biggest wash in an hour or less, with no real work, and three or four cents' expense for power.

"And then it is all so interesting, and I feel so independent at being able to do it all myself."

The Multi-Motor washer is an exclusive Maytag production and is the only practical self-contained power washing machine operating inde-pendent of electric service. The power is generated by a small, highly-efficient gasoline engine built in under] the tub and [operating both washer and wringer.

In farm homes equipped with electric lighting plants the Maytag Electric is the favored washer, as it possesses all the refinements of construction and advanced features of efficiency common to every type of Maytag washing machine.

May we send you gratis the Maytag Household Manual, full of helpful household suggestions? THE MAYTAG CO., Dept. 561 NEWTON, IOWA **BRANCHES:** Philadelphia, Indianapolis, Minneapolis, Atlanta Kansas City, Portland (Oregon), Winnipeg Maytag DISTRIBUTORS: SEATTLE-Seattle Hardware Company SPOKANE-Holley-Mason Hardware Company HELENA, MONT.-A. M. Holter Hardware Company BILLINGS, MONT.-Billings Hard-ware Company OAKLAND, CALIF.- Creighton-Morris Company STREPERSONNAL STREET BELEDING Company LOS_ANGELES-Woodill-Hulse Electric Company SALT LAKE CITY-Utab Power & Light Company THURLE BOISE, IDAHO—Stewart Wholesale Company BOISE, IDAHO-Stewart Wholesale Company
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380---12



A Godforsaken Hole By Edgar White

the work. There's nothing wrong be in the way.' about the job. You have a good The morning breeze rustled the you see, I was reared in the city."

he went on almost defiantly.

in with the chickens and get up with woodland and birds of gaudy plumage man outside of his work. All the stores ing the road. are closed up tight at six o'clock. And you people here—you're used to this up a grassy slope, cried: awful quietude after nightfall because you are born and bred to it. I'm not. must have escaped from some zoo!" I like the rush and rattle of the big town. It's a part of men, and-and I'm going back."

The last was said with despairing earnestness.

Hardy Masters, owner of The News, listened quietly. He appreciated to the full the situation and feeling of his foreman, and knew it would be of no use to argue with him. During the war he had been driven to seek printers from the big city, and there had found Harlow, who was willing to take a try at life in the country. The salary was good, even for war times, and Harlow had saved money. But he had got terribly homesick to go back to the white lights.

"A man might stay here until he vegetated like one of these pumpkins or squashes they talk so much about here," Harlow wrote to a city friend. "They ring the curfew at nine o'clock and every respectable citizen is supposed to be in bed soon after. The only excitement during the six months I've been in this God-forsaken hole was a fire alarm. It raised a fine hullabaloo, but it was merely a darkey's woodshed. Wonder what they'd do if something really happened?"

about an hour earlier than usual. The the hook and back into the water. landlady told him Mr. Masters wanted The owner of The News, wearing a pipe he had intended to light. broad-brimmed straw hat, was in a long fishing poles extended behind.

Masters, "and then we'll drive down to the restaurant and get a bite before nearly as big as mine," we start."

catalog for the Bluebell Stock Farm, Harlow had caught half a dozen big and—'

day," returned Masters pleasantly; "it of lunch wouldn't be bad, won't bust things for us to drive out After one! Harlow looked at his to Crevecoeur, I reckon."

some five miles out of town. It was a Masters reached into the buckboard along with the buckboard as though box of sardines, a small bottle of pickshe enjoyed it.-

for a long time," remarked Masters; ple enough lunch, but Harlow never wagon. We can go anywheres we want

KANSAS CITY, MO. PITTSBURGH, PA.

2196 Oakland Avenue 2196 Empire Building

The Michigan Farmer, Detroit

LIKE you, Mr. Masters, and I like in this outfit, and the car would only

plant and the men are thoroughly con- trees slightly and sent across the road genial-never saw better fellows-but, the fragrant incense of the woods. The pure air was like wine. As they pro-The dark-eyed young foreman of the ceeded toward the lake the country Hillcrest News hesitated, and a shad- became more broken. The road curvow crossed his clear-cut features. Then ed around great bluffs picturesque with moss and fern. Squirrels scur-"This is a small town. People turn ried across the green carpet of the

the birds. There's nothing here for a sang fearlessly from boughs overhang-Harlow had never been quite this

it seems like after supper everybody far back in the country and to him it sits around till dark and then go to was like treading on virgin soil. At bed. There's no place to go-nothing a sudden turn in the road he clutched to do. Of course, it's different with at his companion's arm and pointing

"Look at those two birds! They Masters smiled. The birds were a

couple of peacocks with their gorgeous feathers outspread. "Lots of 'em in these parts," he

said, "nearly every farmer has some of them for ornamental purposes."

"Well, that beats me," said Harlow. "I've seen those birds out in the park in the city and I supposed they came from the tropics. And to think those beautiful birds can be reared right here in the country!" he added musingly.

They reached the lake and Masters, with the calm precision of an expert, began studying the ripples on the water, the shade and the direction of the wind. Then they baited their hooks and threw them in. Harlow started to load his pipe when his cork went under. He made a quick grab for the pole. A bright ripple of water showed the quarry making away with the hook The young man, intensely excited, waded in the water a short distance. Masters looked at him covertly, but made no suggestions. He knew that the way to fish was to let each fellow

manage his part of the game. "There!" cried Harlow, "did you ever-"

But alas! Just before the line swung In the morning Harlow was aroused over to the shore the big bass slid off

"Say! I'll get him yet!" and Harto see him. Thinking something had low worked feverishly to rebait his gone wrong at the office, the printer hook. He threw off his coat, rolled up put on a few things and hurried out. his sleeves and forgot all about the

Masters yanked out a small fish, buckboard in front of the door. Two held it up apologetically and threw it into the basket. Harlow, amazed at "Put on your old clothes, Will," said his companion's calmness, said:

"That was a fine fish you caught, "We'll put out the trout line pretty

"But we got a lot of work in," re- soon," remarked Masters; "then we'll at catch some whales."

bass when Masters reminded him that "I guess the boys will get along to- it was after one o'clock and that a bite

watch for confirmation. Never had Crevecoeur was a large natural lake time passed so swiftly.

beautiful day. The roads were smooth and pulled out a basket. In it were and hard and Masters' mare trotted sandwiches made of country ham, a les, a loaf of home-made bread, a jar "Been promising Nance an outing of preserves and a bottle of milk. Sim-"that's why I didn't fetch the old buzz tasted anything quite so good, 'he (Continued on page 386).

SEPT. 27, 1919.

THE MICHIGAN FARMER



MAKING MICHIGAN SOILS GROW THEIR OWN HUMUS.

BY J. W. HENCEROTH.

THE way to grow big crops, is to grow big crops," said a prominent agriculturist recently.

What did he mean? He was simply expressing in a rather unusual way, the well-known principle that a big crop leaves more humus-more plant residue-in the soil, than does a small crop, and therefore leaves the soil in better condition to produce the succeeding crop. This fact is particularly noticeable in the case of the grass crop. A small grass plant, of course, has small roots; but sometimes we do not realize that a bigger grass plant has bigger roots and therefore leaves a larger amount of humus-making material in the ground, when the sod is plowed under.

At the Cornell, New York, Experiment Station it was found that a heavy sod, produced by top-dressing with fertilizer, increased the regular organic matter of the soil as much as if seven tons of manure had been added.

The same effect is produced with corn, wheat, oats and the other staple farm crops. In fact, in many sections it has been found desirable to depend almost entirely upon plant residues to furnish the needed soil humus. Where manure supplies are insufficient-as is too often the case-humus can be maintained and even increased by the full utilization of crop residues, provided big crops are grown. Fertilizer and humus-producing crops make a combination which will produce big crops indefinitely. Probably this is the reason why, in other work at the New York Station, corn grown on a timothy sod which had been top-dressed the previous season gave a yield twentysix bushels per acre larger than corn grown on the timothy sod which had recevied no top-dressing.

At Cornell Agricultural College in the timothy top-dressing experiments where 354 pounds of a complete fertilizer was used the humus was increased 9,940 pounds in twelve years or approximately twenty-nine pounds for every pound of fertilizer used. No manure or other outside sources of humus was applied. This increase came through the increased roots and stubbles produced by the fertilizer. In the same experiments 320 pounds of acid phosphate produced eleven pounds of humus for each pound applied: At the Ohio Experiment Station in the continuous corn, oats and wheat experiments each pound of complete fertilizer, over a twenty-year period, produced eighteen pounds of humus on one plot and thirty-one pounds on another. Other experiments at Ohio, Pennsylvania, West Virginia, Rothamsted and other stations substantiate these figures. In fact, they disprove an ic fertilizers destroy humus.

The truth of the matter is that fertilizers increase the humus of the soil, because they grow big crops above the ground which mean larger roots in the ground. Thousands of acres of Michigan land could be built up as far as humus is concerned if some fertilizer was used to fertilizer cover crops, such as rye, vetch and sweet clover. Then if the regular crops were properly and generously fed with a suitable fertilizer, substantial crops would be harvested while the land was being further enriched with humus.





13-381

TIMKEN TAPER TRIUMPHANT

Why did the Wallis Tractor Company put Timken Tapered Roller Bearings in rear wheels, at the differential and in the transmission of the "Wallis Cub, Jr."?

Why have 135 tractor engineers—many of whose tractors were not new in the industry, but had formerly incorporated other bearings—adopted Timken Bearings within the past two years?

There is but one possible answer to both questions—it is because of the correctness of the Timken tapered principle and the ability of Timken Bearings to resist wear has been proved by actual experience in the tractor. Facts—not what engineers say Timken Bearings ought to do under certain conditions, but what they actually have done—caused the Wallis Tractor Company to put Timken Roller Bearings at hard service points in place of other bearings. Facts, not theory, are responsible for the installation of Timken Bearings in one make of tractor after another.

> There's more about bearings in the booklet "Timken Bearings for Farm Tractors." Write for your copy.



WORLD EVENTS IN PICTURES



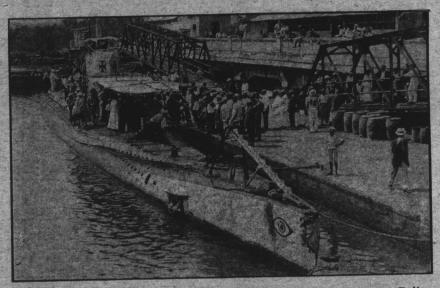


Wife of Secretary of Navy Daniels pressing electric button which opened water controls of the United States' Greaest Dry Dock.

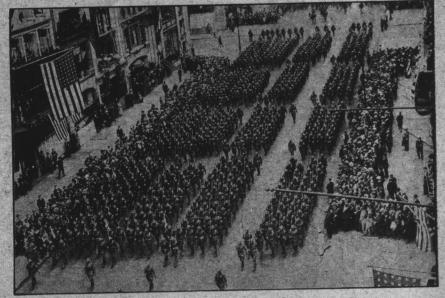
Cardinal Mercier, Belgium's Heroic Prelate, and Mayor Hylan on deck of the Northern Pacific.



President and Mrs Wilson in one of the cities where the Presiden addressed great throngs on the merits of the treaty and the league.



Hun U-boat that sunk Sixteen Allied Ships is now on exhibition at Balboa Heights, Pacific entrance to Panama Canal.



General View of Historic First Division Parade on Fifth Avenue.



Miss Elena Calderon, daughter of Minister from Bolivia enjoyed her first trip in the air. She made her flight in Washington's most modern sightseeing bus.



Loyal Policeman on guard at one of the many looted and wrecked stores in heart of business district of Boston during the policemen's strike. Copyright by Underwood & Underwood, New York



Great Reception for Pershing at New York. Rodman Wanamaker, General John J. Pershing and Grover Whalen at the city hall, where the General was welcomed with an elaborate ceremony. A wonderful picture of Pershing's Smile.

A Critical Mo

In years to come, 5 o'clock on Tuesday afternoon, August 6th, will be pointed to as the critical point in the history of Michidan Agriculture.

SEPT. 1919.

All day long the Executive Committee of the Michigan State Farm Bureau had been in session, considering the important question of putting the Michigan State Farm Bureau on the same strong, financial and organization basis which it occupies today in other states.

All day long the discussion had gone on. They had listened to a great address by Mr. Saylor, head of this organization work in Illinois.

They had heard him tell of the tremendous strides taken in Illinois during the past few months—How over 75% of all the farmers in the counties worked had joined the organization at minimum yearly dues of \$10 each—How the Legislative Committee at he last session secured the passage of every measure which they backed and the killing of every measure which they objected to-How the Marketing Committee has secured results never before approached. For example, getting 65c a pound for the average grade of Illinois wool as against 45c bid by brokers -How the Educational work throughout the state was progressing as it had never done before.

This was the question as it finally came up for decision:

> Should the Michigan State Farm Bureau continue as it has in the past, without ample funds or membership, to accomplish the great work it is doing in other places or should Michigan get squarely in line and put over this organization in a big way by changing the yearly dues to a minimum of \$5. a year in the State Organization recommending similar yearly dues to the County On n-izations—and beginning an intensive state advertising and soliciting campaign to enroll in the organization every farmer in the state, if possible.

The question was put and carried without

a dissenting vote. The die was cast.

Michigan is now lined up squarely with this greatest movement in the history of agriculture.

JOIN THE MICHIGAN STATE FARM BURE

ingar,

384-16

ment in the History Michigan Agriculture

Every practical Michigan farmer knows that today we are facing conditions which no farmer can meet successfully singlehanded.

It is the day of organization.

1919.

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Labor is organized. Manufacturers are organized in every line of business.

The farmer alone is still working singlehanded.

But he will no longer be compelled to do this.

With the majority of Michigan farmers enrolled in this great organization, we will have the means of correcting every condition which now makes profitable farming so extremely difficult instead of being, as it should be, the most profitable and pleasant occupation in the world.

This is actually being done in Illinois and other states. It will be done in Michigan.

The work of the "greater" Michigan Farm Bureau will divide itself into three very definite classifications—educational, legislative and marketing.

This question may be asked—exactly what will be done along these lines?

A fairer question would be—"What can't be done when the farmers of Michigan are organized into one strong, compact working unit?"

We know of the great things which have been accomplished by Michigan organizations working along certain restricted lines.

Imagine the results that will come from all Michigan farmers working together. Imagine the force behind the voice of 200,-000 Michigan farmers, speaking as a unit on matters of legislation. Imagine the power of this great body in changing marketing conditions so that every farmer makes a legitimate profit not only on his investment, but on every day's work.

Imagine the improvements and the educational work which can be done on crops and production. The State Farm Bureau, however, has no intention of supplanting the work of any present organization. It will help all of them and make their work more effective. It will take up tasks that no one organization or one group has ever successfully accomplished. Its scope is not state-wide, but national.

17--385

These are not intangible things. They are definite returns and large returns, which every farmer will share in from his investment of a few dollars in the State Farm Bureau membership.

An efficient organization has been completed and the plan of publicity and soliciting laid out which will cover the entire state.

This is the first announcement of the series which will carry the message to every Michigan farmer.

The active campaign of solicitation will be carried on county by county, beginning with Oakland County on the morning of October 15th.

Other counties will follow rapidly, as fast as the organization can be expanded. Every farmer in Michigan will be called on and asked to join.

The Michigan organization will be but one unit of a great national organization composed of similar units, presenting a united front on all matters pertaining to the well being of the farmer.

We suggest that every progressive Michigan farmer begin immediately to discuss this among his friends. Arouse their enthusiasm over this great work. Get your county and township organizations completed well in advance of the work of the State solicitors. Communicate with the State Secretary, Mr. C. A. Bingham, Birmingham, Michigan. He will be glad to supply you with further details and plans for the work.

> Michigan State Farm Bureau Executive Offices Birmingham, Michigan

REAU-IT IS ORGANIZED FOR BUSINESS



WHEN the full meaning of this "Z" message is realized —mighty few farmers in America will fail to at once call on the nearest "Z" engine dealer. I This example of master engine-building must be seen. I Type and pictures can but suggest this value establishing achievement. I By adding this one possible betterment—Bosch high tension, adding this one possible betterment—Bosch high tension, oscillating magneto—we complete a rare engine service, fully maintained by over 200 Bosch Service Stations in co-opera-tion with every "Z" engine dealer—for all "Z" engine owners. ¶ Prices—1½ H. P. \$75.00—3 H. P. \$125.00 —6 H. P. \$200.00—All F.O.B. Factory.



INSYDE TYRES Inner Armo

10 Days' Free Trial

BARRELS FOR SALE Also whiskey and whe half-barrels and ka

A Godforsaken Hole

(Continued from page 384). thought. The keen air and the excit- and Mr. Jones led the way to the ing sport had given him an amazing barn, where the mare was put up. words, became a bit loquacious and had caught. told stories of hunting and fishing, "Wanted Harlow here to see the and of adventure in the northwest wil- difference between eating fresh fish all his years in a great city and yet be gets such a chance." intensely provincial. His education It was an humble home, but a real es which built the city came from the looked the lake. fields, the forests and the solitudes of At the table Harlow met Kathleen, kept them alive.

and how necessary it was for the city's life. The city was the dynamo; the rolls, good country butter, Irish potafarm the source of power.

Along in the middle of the afternoon and delicious coffee. Masters put the mare back in the Harlow thought of his widowed through a woody stretch and then think of a meal like this. would travel for a while in the open with the great body of water beside Harlow and joined actively in the talk, them. They encountered nobody, but which was about the lake, the woods, after a time they stopped and Harlow the animals that inhabited them, the saw on a hill sloping up from the wa- riding of horses and the handling of ter a white cottage, with vine entwin- canoes. She knew nothing of movies, ed pillars in front.

he exclaimed with involuntary admira- how Harlow didn't introduce such sub-

Masters indifferently; "used to be good From the talk at the table he saw that fishing place over on this point; sup- she was experienced in the handling pose we try it there for a while. They of hunting, rifles, the placing of traps ought to bite good by now-sun going for small game and that she had travdown.'

the forenoon. The fascination of fish- that sort of knowledge, and it rather ing had taken hold of Harlow. He had amazed him that she should know all never been on the lake where the roy- those things and yet have every grace al members of the fish tribe habitated, and refinement of the most cultured and the day was all too short for the young woman he had ever seen. fun he was having. As the shadows Following the supper the men sat lengthened across the waters a horn out on the veranda while Mrs. Jones sounded musically in the distance.

drawing out his line.

on the slope. a stranger's house," said Harlow rue man. For a long while they smoked fully pointing to his mud splashed in silence. Men don't talk much in shoes and trousers.

returned Masters; "they won't look at souls of men, and they were listening your clothes. Come on." They got into the buckboard and Presently Mrs. Jones and Kathleen

cottage. Jones, a bronzed man with Under her arm the girl carried a guifriendly eyes, came out. "What luck?" he cried.

"Tolerable," replied Masters. "Har- the way to the landing place, where low here did pretty well for a tender-

foot." Then he introduced his printer,

appetite. A small sack contained some The white cottage was just as neat corn for the mare, and she, too, seem- and attractive on the inside as it was ed to have acquired a marvelous appe- outside. Mrs. Jones, a cheery-faced tite. After lunch Masters, who seem- woman of possibly forty, met and ed to have thought of everything, un- shook hands with the visitors, and rolled a couple of blankets and spread showed them to an upstairs room to them under the trees. On these the wash up and get ready for supper. men lay and smoked their pipes. Mas- When they entered the dining-room ters, who normally was a man of few they found on the table some fish they

derness. In this Harlow learned a sur- and the kind you get in the market," prising thing—that a man might live said Masters. "Isn't often a city man

had taught him that the great things one. There was a vase of woodland of life were amid the roar of street fern and flowers on the table. To one traffic, in the shadow of sky-scraper side was the hearth with some spruce buildings. That the fundamental forc- ready for lighting. The windows over-

nature had never occurred to him. It the daughter, who extended a frank, was the swift moving, pulsating city, sunbrowned hand to him. She was tallhe thought, that sent out the life-blood er than her mother, and larger. The to the remote corners of earth and blue eyes rested on the young man with genuine pleasure. Her dress was Under the influence of Master's quiet simple, but becoming, and there were talk he saw men of vision toiling in no ornaments about her save her mine and mountain and plain, on the bright hair, which had a dash of sun-frontier outposts, for metal and wood shine in it. Once when Mrs. Jones and various products the city had to started to get something from the have in order to be a city. Coming kitchen, Kathleen anticipated her, and closer to home, he learned how the placing a hand upon her shoulder forcplantation, the ranch, the stream and ed her gently back into the chair, lake all gave of their store to the city, while she went for the article herself. Beside the fish, there were feathery

toes in cream, wild honey, preserves

shafts and they rode up the shores of mother and his little sister back in the the lake. Sometimes they would cut city and wondered what they would

Kathleen sat opposite Masters and of street cars, tall buildings, of the "What a beautiful place for a home," rush and roar of city life, and somejects because they seemed trivial in "Man named Jones lives there," said the light of the things that she knew. eled far in the mysteries of woodcraft. The sport was even better than in He had never run across a girl with

and Kathleen put away the dishes. "Let's go to supper," said Masters, The moon was just rising over the lake and the birds of the night were "Supper?" cried Harlow. "Where?" welcoming it with a woodland concert. Masters indicated the white cottage The place seemed like some fairyland, remote as the ocean's reach from heat "I'm a nice looking guest to go into and dust and the nervous struggle of the solemn majesty of nature's beauty. "Plain country folks-the Joneses," It was as if God were speaking to the intently to what he was saying.

Masters drove up to the front of the came out attired in their heavy cloaks. tar: The men laid aside their pipes and arose. Mr. Jones nodded and led (Continued on page 388).

MAKING COTTAGE CHEESE.

BY M. MEREDITH.

HE following is a single method of making a cottage cheese: This cheese may be made from mixed night's and morning's milk. Cool the night's milk to seventy degrees F.; on the following morning stir in the cream that will have risen to the top, and add the morning's milk. Heat to seventy degrees F. and add a starter at the rate of one per cent; the best starter to use is soured skim or buttermilk of good flavor; leave the milk for forty minutes after adding starter and before renneting. Raise the temperature of the milk to eightyfour degrees F. by standing the bucket containing in a second bucket of water; add the rennet at the rate of one drachm to two and a half gallons of milk. Use concentrated rennet and dilute it with four times its bulk of cold water before adding to the milk; this is necessary to prevent uneven curdling. Stir to the bottom of the bucket for three minutes after adding the rennet, and then stir to the depth of two inches from the surface until the milk commences to coagulate. Cover the bucket with a clean cloth and leave until the curd is firm enough to cut, i. e., when on inserting a finger or the thermometer a clean fracture is made in the curd. The curd should take about forty minutes from the time of adding rennet until ready to cut.

To cut use a long-bladed knife (a carving knife is suitable), cut lengthwise and across the bucket, commencing at the center and leaving threefourths of an inch between each cut; then cut each square diagonally and with a skinner of tin disc cut the curd downwards until all its cubes are of an even size. Stir the curd for ten minutes after cutting, then scald to sixty-nine degrees F. by putting warm water in the outside bucket; bring the temperature up to the scalding point gradually, not quicker than two degrees in five minutes, and stir all the time. Stir from ten to twenty minutes after scalding temperature has been reached or until the curd is fairly firm, then leave to stand for ten to twenty minutes.

To remove the whey, lift the curd bucket from the outer one and pour away the water. Put a canvas cloth over the empty bucket and with a clean cup ladle out the whey until level with the curd, then gently pour the curd into the cloth, stirring lightly with the fingers. Tie in a loose knot and put on a small rack or sieve over the bucket to drain. Cover over with a second cloth to keep warm and leave for ten minutes. Open out, cut the curd in two and pile one piece on top of the other, putting the top sides together. Cover and leave for ten minutes, when the pieces of curd should be reversed. Cover and leave for twenty minutes, when the curd should be dry enough to grind. Cut into small pieces about the size of an almond and salt at the rate of one ounce to two and a half or three pounds of curd; mix the salt in thoroughly.

Line in cheese moulds with muslin wrung out of the whey, six-inch cheese moulds are used for cottage cheese. Pile the curd into moulds, fold cloth over the top and put cheese to press immediately, seven pounds pressure for the first hour, then increased from fourteen to twenty-eight pounds later. The cheese is left in the press until the following morning, then should be taken to a room with a temperature of about fifty-eight degrees F. and kept there for three weeks, turning every day; at the end of this time the cheese is ready to use. The cheese can be pressed by putting a flat board on top of the mould and the weights on the top of this. One gallon of milk will produce one pound of cheese.

..........

 $\mathbf{B} \mathbf{M}$

Makes Dishwashing easy

One tablespoonful in the dishwateri dissolves grease, lossens burned food and makes the dishes bright and clean. B M is also useful for cleaning walls, floors, woodwork, windows, churna, separators, milk cans, cooling tanks, etc. A little B M dissolved in water will remove grease and paint from overalls.

B M is not a soap powder and contains no lye. Send 25 cents for a pound package of B M and complete directions for various uses on the

Bostwick-Miller Co.

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Time is money when you're talking over a long distance 'phone.-L. M. T.



OUR VICTORY MODEL 100 Notable Changes

> 5-Passenger Touring Car \$1690 at Factory 120-Inch Wheelbase -40 h. p. Motor 3 Passenger Roadster, same price Also built as a Sedan and Coupe.

7-Passenger Touring Car \$1875 f. o. b. Factory 127-Inch Wheelbase -48 h. p. Motor HE pre-war Mitchell was a famous Six a 14-year development. It won us a world-

Why Cars Grow Old

wide success. Now we have added more strength and endurance. There are larger parts, sturdier parts, better materials. We have used all our experience to give you the ideal, longlived Six.

See Major Additions

The rear axles are much larger. The steel frame is $1\frac{1}{2}$ inches deeper. The gears are much stronger. And sample gears are constantly broken to insure these new strength standards.

We are guarding against wear. The cylinders are ground to utter smoothness. The pistons are perfectly fitted. Motor bearings are made large. The crankshaft is twice balanced in two new-type machines. Thus we give you motor smoothness that endures.

Engines are tested by dynamometers. Axles are tested by electric apparatus. Transmissions are tested in a sound-proof room. Gears are mated pair by pair. A large staff of trained inspectors guards against the misfits which cause troubles.

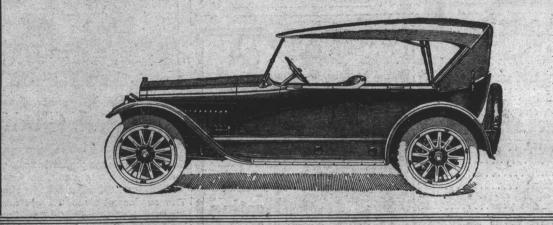
The body is a new design. The frame is uniquely staunch. Extra coats of finish give a lasting luster. The new-grade top will stay new. The leather upholstery is filled with interlaced hair, so the cushions keep their shape.

Fuel cost has been much reduced. Fit and smoothness in the motor save power waste. A thermostat controls the temperature of liquids, air and gas. The carburetor intake is twice-better heated.

Unique riding comfort is attained by long cantilever rear springs. And ample tests have proved them unbreakable in use. Driving comfort is attained by a ball-bearing steering gear. Brake efficiency is increased 75 per cent.

Ask for our new catalog, then see this new car. There is no like value in this class today.

MITCHELL MOTORS COMPANY, Inc. Racine, Wisconsin





If you don't, the tax man will figure your income tax in his own way. But don't keep incomplete records of your income and expenditures. It gets you in bad with the Income Tax Collector, and may cost you money in increased taxes. Well-kept records will not be disputed. It is easy to keep accurate records by using

The Michigan Farmer Account Book

This book requires no special book-keeping knowledge, but provides for a complete record of all transactions, such as receipts and expenditures, interest, breeding, and planting dates, complete farm inventory, and all other daily information; complete summary of Income Tax Law; and other essential information.

A few minutes a day will provide a record that will be acceptable to the Tax Collector, and valuable, too, because of the interesting information it gives you.

It provides for a year's complete record, and is the most simple farm account book devised. It is better than other systems costing from \$3.00 to \$5.00. It is endorsed by bankers and tax collectors.

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THE MICHIGAN FARMER,

388-20

THE MICHIGAN FARMER

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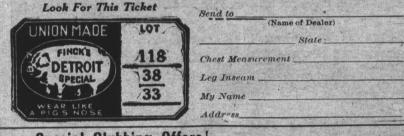
Longer wear, more comfort, just right for any kind of work and any kind of weather. Wear as much clothing as you like underneath.

FINCK'S "Detroit-Special" **One-Piece** Combination Suit

Cut extra full, with plenty of roomy pock-ets. Stand the hardest work, and will be in service when three or-dinary suits have gone to the rag-bag. Over 2,000,000 satis-fied wearers. fied wearers.

(7)

lers everywhere sell them. If yours doesn't, send us the coupon, and we will to your dealer subject to your examination and approval, and also send W. M. FINCK & COMPANY, DETROIT, MICHIGAN



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Michigan Farmer\$1.00 Cloverland Magazine 1.00 Power Farming 1.00 Regular price, one year \$3.00

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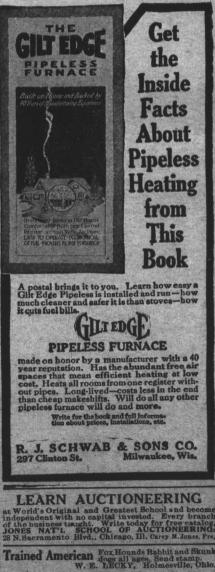
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No. 6. Michigan Farmer\$1.00 People's Popular Monthly25

Regular Price, one year \$1.80 **OUR PRICE ONLY \$1.50**



Milch Goats For Sale. Saanen and Nubian Buck for service. J. W. Dasef, Stanton, Mich.

"Mumblety-Peg" By J. H. Brown

THE young folks manage to have and dirt to get a firm hold of the peg I more or less fun every day, even with his teeth in order to pull it out. though it is mixed in with doing the In England long years ago the boys

or calendar in the dining-room or liv- of jack-knives or pen-knives. ing-room, is marked up and referred to In the first picture shown herewith by mother and the children for days grand-daddy is explaining to the chilbeforehand. When that particular day dren all the details of the game. And begins to dawn there is an unusual stir some of the fathers and mothers are in and around the house and barn and looking on with considerable interest. the alarm clock routs up anyone who Grandfather Moore, at the right, is happens to feel too sleepy to care a watching his adversary to see that he whoop whether there is a picnic or not. makes no mistake and hopes he will and girls care the most for and they prominent farmers and near-pioneers are delighted when father or grandfather show them something new.

to play "Mumblety-Peg." This is an and is holding the knife between his old game and used to be called "Mum- thumb and forefinger and steadying the ble-the-Peg" in some localities through- handle against his chin just before he out the country. This no doubt came shoots. from the penalty exacted from the boy tim had to mumble around in the grass good shape.

chores, working in the garden, picking used to play a game called "Loggats" fruit and potato bugs. that was somewhat similar to our Then there are occasional family re- game of Mumblety-Peg, except that unions and picnics, and the almanac, short pointed sticks were used instead

But it is the games that the boys win out. He is, by the way, one of the of Barry county, and for years has been taking subscriptions for the Mich-We have been surprised to find so igan Farmer. Grandfather Markham many children who did not know how knows all the fine points of the game

And later on one litlte girl is found who was defeated. A small wooden all by herself practicing up with a peg was sharpened and driven into the huge jack-knife she has borrowed from ground so that the top was almost her big brother. It looks as though even with the surface. Then the vic- she had mastered two of the stunts in



A Godforsaken Hole

(Continued from page 386).

canopy in the center. The party got tance-home. in, Kathleen taking a seat in the rear. That night Harlow slept in an upper The engine was started up, and Mr. room in a large four-posted bed, on a Jones guided the craft along the tree- mattress that was thick and soft. bordered shores. When under way About the room were vines and ferns Kathleen took out her guitar and play- and fragrant growths plucked from the ed, quaint airs of the countryside, they recesses of the woods. The window were, and some old-time pieces from looked out on the lake from which a the church books. These she sang, soft breeze swept in and lulled him her mother joining in with her sweet into such a sleep as he had never bealto. Harlow had heard those songs, fore known. years ago it seemed, but they came A large keen-eyed man sat at a flatback to him that night, and as he in topped desk going through the mornvoluntarily came in one some of the ing's mail. From somewhere behind choruses Kathleen bowed and smiled the office came the stead hum of hardencouragingly. It was a glorious night. driven machinery, printing presses do-Mystery and romance were written all ing publicity work for a hundred conalong the dark forests, the towering cerns in a great city. bluffs and the jagged shores along On opening one letter the gentleman

along island reaches, through narrow fice of his business associate, a gentlechannels overhung with the branches man whose hair was tinged with gray. from aged forest trees until they were "Sexton," he said, "I thought you like tunnels; again they would voyage told me Will Harlow had written to up tiny streams which after a while get his position back; that he said he

Harlow had read of such scenes but en' hole up in the country." he had never thought to see them in "He did that very thing," replied the them he would have to travel to Eu- his letter right here." rope, Scotland, Ireland and other plac- "Well," returned the other, "I have

when Mr. Jones headed the little boat him?"

there was a large motor launch with a to where a light twinkled in the dis-

which the surf gleamed like silver. at the desk frowned darkly. Then he Mr. Jones guided the little boat arose and walked into the private of-

would open into a large body of water. was tired of living in that 'Godforsak-

his own land. He imagined to enjoy elder partner in mild surprise. "I have

es famed in song and story for beauty a letter here in which he says that he of lake and of mountain. has made up his mind to stay where The cruise lasted until midnight, he is. Wonder what's happened to THE MICHIGAN FARMER

21-389

ROSEN RYE OUTYIELDS ALL OTHER VARIETIES.

ROSEN Rye outyields all other vano comparison can be made between it and other varieties. Rosen Rye, with its great stooling nature and its wonderfully well-filled heads, makes a very' beautiful stand of grain even from a thin seeding.

The berry of Rosen Rye is large and plump and even-sized. The weight far surpasses the standard weight for rye. The color is an even grayish blue varying slightly with the kind of soil on which it is grown. Rosen Rye is adap--table to many types of soil and to various weather conditions. In Michigan, the home of Rosen Rye, the crop withstands our most severe winters. Yields of forty bushels to the acre are not at all uncommon, even after a winter like the one in 1918 and even though the rye is seeded late.

Rosen Rye was selected and improved from an envelope of Russian Rye, furnished in 1909 by Mr. Rosen, a student from Russia, at the Michigan Agricultural College. The variety immediately began to show its outstanding superiority and soon proved its won7 derful yielding ability. In 1912 a bushel of Rosen Rye was sent to Calhoun county, to Mr. Carlton Horton. This was sown on an acre and produced thirty-five bushels of rye of such quality that not only that crop but those of following years have been used entirely for seed.

Since everybody did not accept Rosen Rye at once and some people continued growing common rye, the grain which cross-fertilizes readily, became mixed. Today we find very large acreages of this rye which has practically reverted to the old type. It has lost its well filled heads and its wonderful stooling nature and its well filled berry and it has become scrub Rosen Rye.

Realizing the necessity of keeping Rosen Rye pure the Michigan Crop Improvement Association in 1912 adopted a series of rules by which every member of the association must abide in order to have his rye guaranteed pure by the association. The grain is inspected in the field and again after it is harvested, by a trained representative of the association. If it passes inspection it can be sold as Rosen Rye for a price above the market price for scrub rye. . There is no question but that the men who grow pure Rosen Rye and have it inspected are entitled to the higher price for their grain. I cannot urge my people or the people in other counties or in other states too strongly to secure some of the pure-bred Rosen Rye for fall seed.

P. C. JAMIESON.

SPECIAL TRAINS MEAN NOTHING TO FAMOUS COWS.

I N these days of frenzied saving it is refreshing to note that valuable prize cows evidently do not come under the ban of the H. C. L. At least the traveling story of Bess Burke Ormsby, a \$25,000 Holstein, is one to thrill the ordinary public that thinks in terms of dollars.

Bess Burke Ormsby was bought in Minnesota and started by express enroute to the Blaine Farm between Waterloo and Lake Mills, Wisconsin. Being an extremely valuable cow great cars had been taken to provide her with every comfort and convenience.

But at Madison it became necessary to change cars, and missing connections Bess seemed destined to have to stay overnight in Madison with no adequate stable facilities. Rather than take such a risk her new owners decided to charter a special train to take her home. After some adroit maneuv-ering and manipulations this was pro-rabbits of all breeds and ages; guidea pigs; ferrets; pigeons; hunting dog; and bloded young hogs; raise cured. And so Bess Burke Ormsby came to her new home in royal style. for

8

of all bi hunting

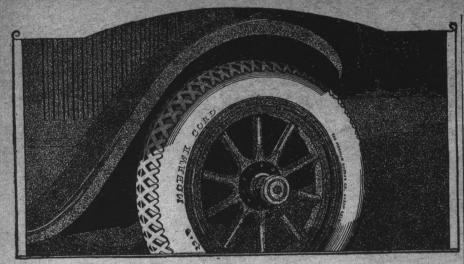


A good way to get money for Thrift Stamps, Liberty Bonds, or to help in the high cost of living. From two to three dollars a week can be earned with little effort. Details furnished upon request.

Detroit, Mich.

THE MICHIGAN FARMER

SEPT. 27; 1919.



Greater Economy for Any **Country-Driven** Car

Whether it's a suit of clothes, a pair of shoes, an automobile, a tractor, or a thre-quality is the thing that insures lastingly satisfactory service.

It is Mohawk quality that has made Mohawk Tires so popular among the farm communities.

In most sizes of Mohawk Tires, you will find an extra ply of fabric. That means longer wear. In every Mohawk Tire you will find nothing but pure rubber and pure materials-no shoddy, no reclaimed rubber, no "fillers". That means that you get more tire for your money when you buy a Mohawk-the Mohawk Cord, for example, weighs from eight to ten pounds more than any other Cord, size for size.

Add to these advantages a hand-made tire, produced by expert tire builders and you will understand why 85% of the motorists who buy their first Mohawk Tire continue to use Mohawks exclusively.

Cord or fabric, in sibbed and non-skid treads, and there's an extra ply, hand-made, Ford size Mohawk, too. Good dealers everywhere handle them

MOHAWK RUBBER COMPANY, AKRON, OHIO Branch: 1507 S. Michigan Ave., Chicago



Our Boys' and Girls' Page

The Home Garden Scandal By Mildred Koehler, Age 14

[This Story Was Awarded First Prize for Home Gardens at Syracuse State Fair, Over 8,000 Entries]

her arms around Mr. Cabbage who was for the term. bed. Mr. Sweet Potato, having his fresh every day. eyes all over and never missing an op- Any boy or girl who really takes an squashed.

Mr. Pumpkin. Mr. Pepper was select- them and bring them up to be a deed as attorney for Mrs. Lima and Mr. light to the whole family. Mustard was selected attorney for Mr. Lima.

Judge Corn called the court to order, by rapping his cob on the pumpkin and then the jury was selected as follows: Mr. Lettuce, Mr. Egg Plant, Mr. Parsnip, Mr. Tomato, Mr. Kohl THE day that I enjoyed the most Rabi, Mr. Okra, Mr. Raddish, Mr. String Bean, Mr. Onion (Mr. Chinese to Gull Lake for a picnic. I got up Cabbage was selected but as he was early in the morning and did all my not a citizen and did not understand chores. We drove to Martin and rode the English language, was excused). Brussel Sprouts was called as the urban.

first witness. He told his story, which gave an impression that there was a shining on the water making it gleam leak, in the case. Mr. Cauliflower was like jewels. It was surrounded by cotthe next witness; he stated that Mrs. tages and a few stores. There were Lima tried to beet the case. There five large motor boats. We rode on was a commotion in the court room as one to the picnic grounds. Mr. Cauliflower, almost deathly white, After a while we went in bathing. continued his testimony, which affect- The water was clean and shallow ed juror, Mr. Onion, to such an extent along the shore. that he continually cried. It also made such an impression on Mr. Tomato picnic dinner. It consisted of sandand Mr. Raddish that they turned scar- wiches, salads, jelly, baked beans, diflet red and blushed to their ears. The ferent kinds of meat, chicken, cookies, Court at this time declared a short re- doughnuts, pies, cakes and watercess, while Mr. Watermelon the Clerk, melon. gave the Judge a drink.

all testimony being in Mr. Pepper be- went on a boat ride of about twentygan summing up* to the jury, made five miles. We also went in bathing some sharp, and fiery remarks. Mr. again. We started home about five Mustard closed the case, and in his o'clock and got home about seven. hot and burning speech, impressed the I was tired but happy, having spent jury so that he nearly drew them out a very pleasant day.-Allen Edwards, of their seats; causing Mr. Pea to be- Plainwell, Mich. Age fourteen years. come so excited that he burst his pod, Mr. Carrot to become yellow with rage at the valuable time of the court being wasted. Hereupon Mr. Lettuce fainted and began to wither.

The Judge hearing rumors of discontent among witnesses such as Aunts, did not go so I went with some neigh-Cutworms, Fleas, and Bugs, who had bors. We got there about eleven a. m.

W HILE cultivating my home gar timony, and having also some inforden one, morning during the mation that Kale was being passed month of July, was attracted by a veg- around, took advantage of Mr. Letetable argument and watching closer tuce's condition and declared the case discovered that Mrs. Lima Bean had closed, court dismissed and suspended

about to get a swelled head, when Miss Note.-Every boy and girl should Farmerette released him of his pleas- have a "Home Garden" no matter how ant agony. Mr. Lima Bean made quite small, and you would be surprised to a fuss although he was also in a pickle find how many pennies Mama would as he was discovered in the cucumber save, besides having all the vegetables

portunity, immediately suggested a interest keeps a close watch of the retrial, although the incident was better sult of their work among the different plants and not forgetting that they All vegetables were assembled and have feeling as well as habits. Also Mr. Corn was selected Judge on ac- at times insist on having their own count of his large ears. The desk us- way; fairly telling you so. It is by ed for the court was borrowed from being kind and gentle you can train

Our Prize Contest FIRST PRIGE.

The Best Day of Vacation.

was when our Sunday School went about twenty-five miles on the inter-

The lake was beautiful, with the sun

At twelve o'clock we had a delicious

After dinner we had games and con-Court began proceeding again, and tests. Then most of the picnic party

HONORABLE MENTION.

The Best Day of Vacation.

THE best day of vacation my parents I went to the river. My parents not an opportunity, gave damaging tes- There were some other families there,



too. Then I played with the other children. We also were watching two expert divers, which was very interesting. The women spread some blankets on the ground, on top of which were spread some tablecloths. We had salmon and bologna sandwiches, baked beans, potato salad, pie and lemonade. After dinner we changed our clothes and went into the water.

We had a splendid time splashing about. One boy took his horse in and had her swim. Some that did not go in tried to take our picture, but I do not know whether they succeeded or not, for I left the water to change my clothes. The others soon came and changed their clothes.

Then we had some cake and ice cream, and soon left for mome. I reached home about six o'clock. When I told my parents about it they agreed. I had spent a very happy day.-Alta L. Downey, Owosso, Michigan. Age ten years..

HONORABLE MENTION.

The Best Day of Vacation. WILL tell about the best day of vacation, which I think is the Fourth of July.

It is a real exciting day, for everybody is bound to have a good time, grown folks as well as children.

One Fourth of July mother said to sister and I: "Well, girls, we will go to Benton Harbor to the "House of David," and spend the day, and in the evening see the fireworks. Of course, we girls were mighty glad that we were going out to spend the Fourth of July to the House of David.

Oh, we sure did have a dandy time there. But we only stayed there until noon, and then went to St. Joseph, down the beach until evening, and then we went back to the House of David to see the fireworks. And I believe I never before had that much fun on the Fourth of July as I did on that day.

We saw all kinds of fire crackers there, and sometimes we went too close to the fireworks and were in danger of getting burned.

It must have been about 9:30 as we left, though they were not all through with the fireworks. As we got home one of my girl friends was there, and we shot some firecrackers and went to bed, all tired out. It was sure a good Fourth of July for me, and the rest, too.—Edith M. Lutzus, Buchanan, Michigan. Age fourteen years.

Next week we will publish the winning letters entitled, "The First Day of School," and the following week, "My Best Kodak Picture." Send the letters in early and don't forget the kodak picture.

MEMORY DAY.

(September 30th).

(September 30th). Tho' passed away for many a year Our loved ones are to mem'ry dear And so it is, on Memory Day, Back to their graves we wend our way And tenderly give loving care, And place, once more, a tribute there. O, Memory Day, Sweet Memory Day, Long may thy spirit hold full sway, Rich blessings e'er we bear away, As we observe each Memory Day.

Blest was the mother and the wife, Who led so true and helpful life, That when her journey here was done And she had joined her only son, In praise, the husband sang his lay And gave the world our Memory Day. O' Memory Day, Sweet Memory Day, Long may thy spirit hold full sway, As we observe each Memory Day.

Our dear ones, from their Home above, O, do they see these deeds of love, If so, the joy that we impart Is what rebounds within our hearts As from their graves we turn away, Made better by this Memory Day. O. Memory Day, Sweet Memory Day, Long may thy spirit hold full sway, Rich blessings e'er we bear away, As we observe each Memory Day.

-George Whitfield D'Vys. Rowe, Massachusetts.

11

FIRESTONE has done the I thing that must change tire buying habits more than any other move ever made in the tire business.

A standard brand 31/2-inch tire at a low price;

A quality that beats any former tire of any brand; A 6,000 mile basis from peo-

ple who mean it;

A tire that goes on and on, without regard to its adjust-ment basis.

That's what Firestone now offers to that great majority of carowners who use $3\frac{1}{2}$ -inch tires.

Buying habits are sure to change. Who will now want to pay more? Who will want to accept less?



ASPECIAL factory, special machinery, a special fab-ric mill, a special organ-ization, a \$7,000,000 invest-ment - that's the extent Firestone has gone to give you this tire.

23-391

Firestone Plant No. 2 is de-voted exclusively to 31/2-inch tires.

Its present capacity is 16,000 a day.

The extreme value in this special molded Firestone marks a turning point in the tire business.

Dealers know what it means. Ask your dealer.

Let him put this tire on every wheel and give you the benefit of-

Most Miles per Dollar

151-Acre Michigan Farm,

151-Acre Michigan Farm, \$9500 with 8 Horses and Several cows, all kinds farm machinery, crops, &c., hillage, last year's hay crop 150 tons, 3 big outlings all alfa each year, river-watered 40-cow pastare, wire-fenced: wood timber, orchards, Farm income last year \$270. In-room house overlooking lake 80 rods away, large cow, horse and hay barns. Owner retir-ing, \$2500 gets all, only \$2500 down cash required. Details page 30 big 100-page Fall Catalog, just out, farm bargains Maine to Florida and west to Nebraska; copy free. STROUT FARM AGENOY, 814 BO Ford Bidg., Detroit.

We Have For Sale the following lands and improved lands, well located, easy terms. 159 acres of fine un-improved lands, well located, easy terms. 159 acres sit-tated 5 miles from Gladwin, on daily mail route, close to school, all fenced with woven wire. 20 acres under fine state of cultivation, 6 acres in fruit, 70 acres more of sume tract brushed, logged and burned; sheep ranch of 810 acres, all fenced, living water, 70 acres of this ranch cleared, 30 acres of which is under fine state of this season's lambas. We have three fine 80cck Ranches, well grassed, well fenced, living water. McClure Stevens Land Co.

For Sale

For Sale Ideal Sheep Land in heart of lower Michigan, Olover Seed Belt, where settlers are paying for land with clo-yer seed. Farilie soil that grows wheat, cora, oate, bar-ley, pear, clover, altala, vetch, truits and vegetables. Ten to Fifteen Dollars an acre. One Dollar an acre down. long time for balance at 55. John G. Krauth, Millersburg, Presque Isle County, Michigan.

Just Think -190 acres, 18 cows 1 bull, grade Hol-550 worsh of hogs, \$100 worth poultry, estimated 60 tons hay and \$1000 worth of lumiter, all grain on farm. Good two-story house, practically new, two barns, one 100×30, one 30×40, good ones. Land Hies good; 2 miles to R. R. station, T miles to City of Corning. Only \$0,000 for all, half cash. Personal property estimated worth \$5,000 hora't wait if you want this great bargin. HALL'S FARM AGENOY, 38 Market Street, CORNING, N. Y.

160 Acre Bargain. ¹⁰⁰ acres under plow, balance buildings, close to school, churches, and stores, 12 head of cattle and all farm tools and erops. Price, 7500. 40 acres, good buildings. Close to to city, \$1300. 80 acres, stock, tools and crops, \$5250. All on easy terms. John Conant, Grand Haven, Mich.

160 ACRES, seil elay loam, slightly rolling remainder good pasture, small stream thru pasture y mile to school, 4% miles to Marion, Osceola County on Anu Arbor railrond, good 20 ton silo, fair hous and barn, good well, no exchange. Price \$400.00 2000.01 down and any reasonable time on the remain der. Write W. F. Umphrey, Evart, Mich.

Shropshires Am offering 16 yearling rams and yearling ews of Senator Bibby breed C. J. THOMPSON, Rockford, Mich Farms and Farm Lands For Sale GOOD OHIO FARMS: One of three hundred tiga bargain. Two hundred acress bottom, well ditched. ista bargain. Two hundred acres bottom, well ditched. Ten-room house, six-room tenant house: one large cattle barn, horse barn, silo, corn cribs, granary. Electric lights, hot and cold water, bath. Water and electric lights in barn. Close to school, church and market, on good road. A bargain at \$150.00 an acre. If you want Ohio farms, write me. J. B. ESPY, Room 303 Arcade Bidg., Columbus, Ohio Looking for a Farm? Don't fail to send for our list and prices. WELLINGTON, OHIO. New List Of Gladwin Co. Farms. There was nevera better time to buy a farm than right now. Send for list U. G. Reynolds, Gladwin, Mich Rich Michigan Farms. EBS, 15 Merrill Building, Saginaw, Michigan

Fruit and poultry farm for sale in Oakland country for the sale in Oakland country for the sale in Oakland country for the sale in the sale of the sal SHEEP

HAMPSHIRES One of the best bred flocks in America. Home of the International Champion ewe of 1918. Rams of all age for sale. Write me your wants or come and see them Harley R. Emmons, Elsie, Mich.

BUYASHEEP Wait a minute, buy Hampshires. The American Hampshire Sheep Association wants to send you a dandy lit-tle booklet with list of Breeders. Some near you. Write COMFORT A. TYLER, Secretary, 22 Wood-land Ave., Detroit, Mich.

300 Breeding Ewes Choice Michigan Natives. Black faces and delaines to 4 years old. Mostly 2 year olds in good condition in lots of 10 to a carload. Almond B. Chapman South Rockwood, Mich. Telegraph Address Rockwood

Mr. Shropshire Breeder. Do you need a real sire? Mr. Shropshire Breeder. Do you need a real sire? selves. Type quality, carcass and fleece. With Gooper and Buttar Breeding. No cold blooded stuff here. First ten 300.00 to \$400.00 Balance including some oracking Hampshires \$50.00 up. No Fairs this year but believe me we have the sheep, Good roads to the farms. Kope Kon, Coldwater, Mich., S. L. Wing, Prop.

Ingleside Farm Offers 80 recorded Shropshires—12 flock headers. 25 yearling rams for range or grade use. 43 ewes—mostly yearlings Herbert E. Powell, Ionia, Mich.

Idle Wild Stock Farms Shropshire yearling rams Make your selection early. Olif Middleton, proprietor, Olayton, Mich. R. 3.

Shropshires Rams Bred from McKerrow's Holker 275(014259R)377379 Eng-lish strain. Dan Booher, R. 4, Evart, Mich. For Shropshire Yearling Rams write of ARMSTRONG BROS., R.3. Fowlerville, Mich. 80 Reg. Shropshire Ewes yearling and ram Jno. Grieve, Fowlerville, Mich. R. F. D. No. 3. Maple Lawn Farm Shropshires. Rams and ram lambs, High bred, well wooled and registered. A. E. Bacon & Son, R. 4. Sheridan, Mich. 40 Registered one and two year old Shropshire ewes mostly two's, also large, vigorous ram lambs ready for service, priced to sell. Flock established 1890. C. Lemen, Derter, Mich. Registered Shrcpshire sheep, 30 rams HARRY POTTER & SON, Davison, Mich. Reg. Shropshire Fam Lambs with both size o. K. Topliff, Eaton Rapids, Mich. Reg. Shropshires Yearling Rams and ram lambs. Special price on lots of two or more, B. D. KELLY & SON, Ypsilanti, Mich. For Sale. Registered Oxford rams, 2 ram lambs 1 Abbott, Phone Deckerville, 78-3 R. 2, Palms, Mich For Sale Registerd oxford Down yearling rams and lambs also a few choice ewes. D. P. Beasore, R. F. D. No. 1 Eaton Rapids, Mich. Four Reg. Oxford Ram Lambs, extra choice Price \$35 and \$40 each Reg. and Del. Sire an imp. Ram. J. Robert Hicks, St. Johns, Mich. Oxford Yearling Rams For Sale H. B. PETERS, Carland, Mich. Lincolns^{Choice} regestered Sheep of both Sex Gagetown, Mich.

CHOICE delaine rams, also 2"B" type stock rams Of high quality, large, oily fleeces, shearers, write. S. H. Sanders R. No. 2, Ashtabula, O. For Sale Lincoln Rams ⁶ extra good yearling rams and 1 two year old. R. J. Knight, Cass City, Mich.

A good way to get money for Thrift Stamps, Liberty Bonds, or to help in the high cost of living. From two to three dollars a week can be earned with little effort.

Details furnished upon request. THE MICHIGAN FARMER.

THE MICHIGAN FARMER

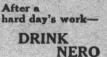
SEPT. 27, 1919.



It's an eye - opener— a healthful stimulant to brace you for a big day's work.



At noon-DRINK **NERO** Farm work certainly takes the tuck out of a man - Coffee puts it



The one drink that lightens fatigue with-out harmful results.



THIS IS THE

tired, it's Nero Coffee that makes him cheerful and fit for the next day's jobs.

Your grocer has Nero Coffee, or can easily get it for you.



Modernize Your Home

Running Water Under Pressure Will Do It

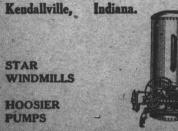
The fact that you do not have access to city water mains need not prevent your enjoyment of this modern convenience.



will care for the water problem on your farm. Hoosier Systems are easily installed, will operate from any kind of power,-windmill, gasoline engine, or electric motor, and pump from deep or shallow wells.

Write for Bulletin F describing complete line of

FLINT & WALLING MFG. CO. Dept. C



How Much Does Mary Weigh?

has impressed most of us mothers with the importance of knowing baby's be used in making our deductions of the other ailments which afflict so weight. We have learned that if baby stops growing for a few weeks, something is radically wrong and we must see the doctor at once, even though no other symptom has so far manifested itself. Some of us have scales and keep a record of baby's growth, registering her quarter pound, or half pound perhaps, with great pride.

But do we keep track of the older children? Do we realize that they should be steadily growing, too, in height and weight? And that if they stop increasing in weight it is just as bad as for baby? Most of us, I'm afraid, pay little attention to the children after they get safely through that "second summer." Which same summer, by-the-way, wouldn't be a bit worse than the first if we would use **PACKAGE** the same care in feeding.

Steady growth is the law for all young animals, and if we do our whole Nero Coffee is a food-drink with rousing effect. When a farmer has put in a busy day and is dog-We can't stop watching them with the dren of all ages maintain their growth. We can't stop watching them with the second summer nor with the sixteenth. The final triumph over Mr. Yard Stick. No wonder Betty stretches up on tip toes for "good measure." In fact, I wonder if we ever can con-

HE observance of baby days in ly an exciting event, it is instructive harmful as too slow. If the undersized most villages, or perhaps the as well, as it gives us an idea as to child seems perfectly well, sleeps well, visit of the "Special" last spring which ones are keeping up.

"To Love and to Labor is the Sum of Living"-Moore

WOMEN'S SECTION



scientiously stop keeping an eye on from these weighing and measuring them, even after they cast their first tests. We all know there are children vote. So if Johnnie or Mary are to be who seem undersized, but are perfectkept up to the mark, we must weigh ly well, while often the large boy or them every month or so, and measure girl who grows "by leaps and bounds" them at least twice a year. Measur- is really the one who needs medical ing everyone every birthday is not on- attention. Too rapid growth is as

Common sense and judgment must is not troubled with adenoids or any

many children, there is no reason to be alarmed if he does remain undersized. But if he is fretful and cross, tires easily, sleeps badly, is captious about his food and all out of sorts, consult a doctor.

The following table of weights and measures will give the relative size for both boys and girls from two years old to fourteen:

| | Boys. | A LE PLAN |
|------------------|----------------------|--|
| ge. | Height. | Weight |
| ars. | Inches. | Lbs. |
| 2 3 | 33.8 | 30.3 |
| 3 | 37 | 35 |
| 4 | 39.3 | 38 |
| 5 | 41.6 | 41 |
| 4 5 6 7 | 43.75 | 45.1 |
| 7 | 45.75 | 49 |
| 8 | 47.75 | 53.8 |
| 89 | 49.7 | 59 |
| 10 | 51.7 | 65.2 |
| 1 | 53.3 | 70 |
| 2 | 55.1 | 76.75 |
| 3 | 57.2 | 84.8 |
| 4 | 59.9 | 94.5 |
| | Girls. | for the second sec |
| 2 | 32.9 | 29.3 |
| 2 3 4 5 | 36.3 | 33 |
| 4 | 38.8 | 36.4 |
| 5 | 41.3 | 39.6 |
| 6 | 43.3 | 43.2 |
| 6 7 | 45.5 | 47.3 |
| 8 | 47.6 | 51.6 |
| 9 | 49.4 | 57 |
| 0 | 51.4 | 62.2 |
| 1 | 53.4 | 68.7 |
| 2 | 55.9 | 78.2 |
| 3 | 58.2 | 88.5 |
| 4 | 59.9 | 98.2 |
| C. Lawrence | Telline and a second | A THAT AND A COMPANY OF |

Emergency Measures---First Aid

Slight Cuts and Scratches.

S LIGHT cuts and wounds may be the nose hard. ever germs are in the wound. A nar- teracts the alkali of the lime. row strip of adhesive plaster may be used across a cut, holding the sides of pus germs are sealed up inside.

Splinters.

Splinters should be drawn out by usput under the end of the splinter, hold-

eye and pull the upper lid over the should be let alone. lower several times, then close the Horse bites are rare but may cause ble is cooking .-- M. A. P.

washed with peroxide or a carbolic If lime gets in the eye, bathe it as any other wound. solution. Never use court plaster: It with a solution of vinegar, a teaspoon- For insect bites apply ammonia to is not clean itself and it seals in what- ful to a cup of water. This acid coun- the bite, then cold wet dressings-wet Needles

Needles that have gotten into the it together, but must not cover the flesh should always be examined carewhole cut. Collodion may be used on fully to see if any part has broken off has made a wound, take particular shallow, trivial cuts and scratches, but and remains inside. In such a case, care to give it the best-wound treatif the flesh gets red and inflamed keep the person still so that the piece ment, and always have a doctor see it around it, take the collodion off, be- will not work around, and send for a as soon as possible. Lockjaw can be cause the inflammation proves that doctor. Keep the piece of the needle prevented but is almost never cured, so as to let the doctor know what size and the lockjaw or tetanus germ is piece is missing.

Animal Bites.

Cat, dog and horse bites are apt to ing pincers or the tip of a knife blade be rather mean, torn and bruised wounds. Usually they need the same ing the splinter against the knife blade treatment as any other wound. The with the thumb nail. If the splinter is animals are seldom rabid or mad, but entirely under the nail, scrape the nail if there is any question about this get entirely under the half, scrape the half if there is any question about this by for a doctor immediately and treat for thin over the end of the splinter, then cut out a tiny piece and draw the splinter. Don't use collodion over such splitter. Don a wound; cover it with surgically proportion of them are received by water and sanitary compress if possi-clean gauze. Eye Wounds. In an actual injury to the eye, a doc-tor should always give all treatment. boys tease the dog, who naturally ob-All you can do is to cover the eye with jects, and he can show his objection All you can do is to cover the eye with jects, and he can show his objection soft cloths, soaked in cold water and only by biting. There would be fewer bandaged on, but not too tightly. Keep scared parents as the result of dog the bandages wet all the time till the bites if small boys were brought up bles.-When cooking cabbage, onions doctor comes. When a cinder, dust or with the idea of always making friends or cauliflower, to prevent the odor sand, get in the eye, don't rub the eye. with animals and protecting them in from permeating the house, place a Make the tears come by closing the stead of plagueing them. Strange dogs good-sized piece of bread in the bot-

nostril on the opposite side and blow serious blood-poisoning if the wound is not properly taken care of. Treat

salt or mud are both soothing.

Lockjaw.

Where dirt has been ground into a ragged and torn wound or a rusty nail most apt to exist in such wounds as are ragged and full of dirt.

Abdominal Wounds.

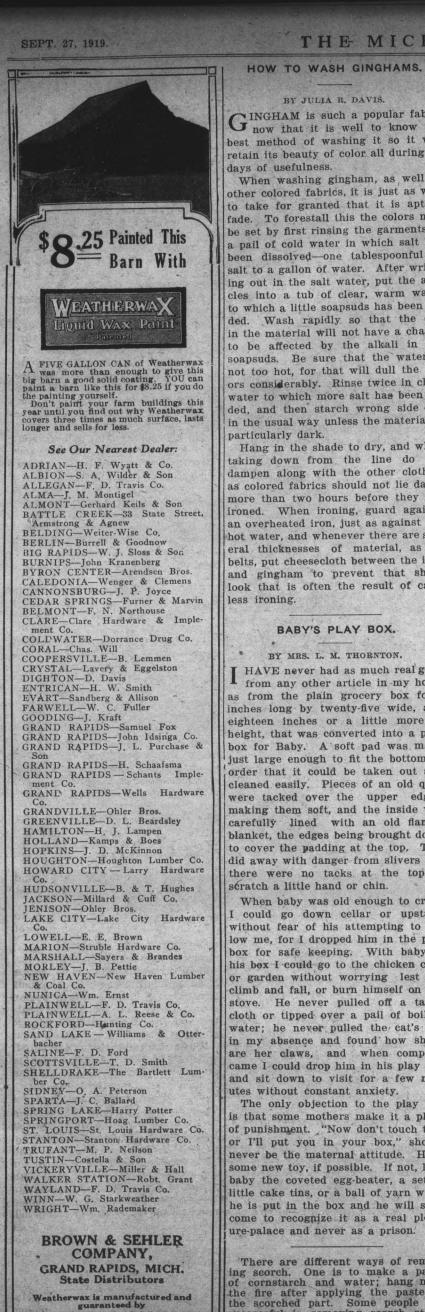
These are very serious, and one danger is the drying of the parts exposed to the air when the wound has laid open any of the abdominal organs. Send

To Avoid Odors of Cooking Vegetatom of the kettle in which the vegeta-



THE MICHIGAN FARMER

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THE REILLY COMPANY INDIANAPOLIS, IND. Branch Factories: Minneapolis Mobile Seattle Norfolk BY JULIA R. DAVIS.

 $G_{\rm now \ that \ it \ is \ well \ to \ know \ the}$ best method of washing it so it will retain its beauty of color all during its days of usefulness.

When washing gingham, as well as other colored fabrics, it is just as well to take for granted that it is apt to fade. To forestall this the colors may be set by first rinsing the garments in a pail of cold water in which salt has been dissolved-one tablespoonful of salt to a gallon of water. After wringing out in the salt water, put the articles into a tub of clear, warm water to which a little soapsuds has been added. Wash rapidly so that the dye in the material will not have a chance to be affected by the alkali in the soapsuds. Be sure that the water is not too hot, for that will dull the colors considerably. Rinse twice in clear water to which more salt has been added, and then starch wrong side out in the usual way unless the material is particularly dark.

Hang in the shade to dry, and when taking down from the line do not dampen along with the other clothes, as colored fabrics should not lie damp more than two hours before they are ironed. When ironing, guard against an overheated iron, just as against the hot water, and whenever there are several thicknesses of material, as in belts, put cheesecloth between the iron and gingham 'to prevent that shiny look that is often the result of careless ironing.

BABY'S PLAY BOX.

BY MRS. L. M. THORNTON.

I HAVE never had as much real good from any other article in my home as from the plain grocery box forty inches long by twenty-five wide, and eighteen inches or a little more in height, that was converted into a play box for Baby. A soft pad was made just large enough to fit the bottom, in order that it could be taken out and cleaned easily. Pieces of an old quilt were tacked over the upper edges, making them soft, and the inside was carefully lined with an old flannel blanket, the edges being brought down to cover the padding at the top. This did away with danger from slivers and there were no tacks at the top to scratch a little hand or chin.

When baby was old enough to creep I could go down cellar or upstairs without fear of his attempting to follow me, for I dropped him in the play box for safe keeping. With baby in his box I could go to the chicken coop or garden without worrying lest he climb and fall, or burn himself on the stove. He never pulled off a tablecloth or tipped over a pail of boiling cloth or tipped over a pail of boiling quires 64/2 water; he never pulled the cat's tail Price 10c. n my absence and found how sharp are her claws, and when company came I could drop him in his play box and sit down to visit for a few min-utes without constant constant constant constant constant. utes without constant anxiety.

The only objection to the play box is that some mothers make it a place of punishment. "Now don't touch that or I'll put you in your box," should never be the maternal attitude. Have some new toy, if possible. If not, loan baby the coveted egg-beater, a set of little cake tins, or a ball of yarn when he is put in the box and he will soon come to recognize it as a real pleasure-palace and never as a prison.

There are different ways of remov-ing scorch. One is to make a paste of cornstarch and water; hang near the fire after applying the paste to the fire after applying the paste to the scorched part. Some people are successful in removing scorch stain, if they dip the place in cold water im-mediately, and lay it out of doors on the clean grass to bleach. If the scorch is deep, use Javelle water as a bleach.—Z. I. D. No. 2720—Ladies' House Dress. Cut in seven sizes, 34, 36, 38, 40, 42, 44 and 46 inches, bust measure. Size 38 re-dires 6¼ yards of 36-inch material. Width at lower edge is 2¼ yards. Price 10c. No. 2785—An "Easy-to-Make" Apron. Cut in four sizes: Small 32-34; medi-

24



Because it has –

to keep clean

 Doors and splasher back beautifully paneled in White or Blue Enamel, if desired.
 All-copper hot water reservoir; patented shifting lever con-trols water temperature.
 Body of Charcoal Iron; resists rust and lasts 3 times longer than Steel. than Steel. 4. Flues lined with Asbestos Board, ¼ inch thick; prevents loss 5.

of heat and saves fuel. Air-tight oven; all parts riveted together, assures perfect baking. Large warming closets: roomy and convenient, with drop 6.

doors. 7. No springs on oven door; it is supported with strong, dur-able stiding rack, and holds any weight placed on it. 8. Unbreakable malleable iron; permits rivet tight joints; saves

fuel and repair expense. First joint of pipe double weight; pipe collar double strength. Front of flue at top and bottom of oven covered with *inde-*structible malleable iron. Strongest where others are weak-9.

Open end ash pan; like shovel. removes ashes easily, and cleanly. Ash cup catches ashes that otherwise fall on floor. Cooking top turnished dark blue, requires no polish. Heavy nickel trimmings; smooth as glass; stay bright, easy 11. 12.

MICHIGAN FARMER PATTERNS.

2944

No. 2944 Girls' Suit. Cut in three sizes, 12, 14 and 16 years. Size 14 re-quires 6¹/₂ yards of 27-inch material.

The Range with a Reputation

2936

2785

2940

There are many other Majestic superiorities. No other range gives you such value for your money.

See The Beautiful Majestic

It is made in many styles and sizes, at prices the same everywhere, freight consid-ered. There is a Majestic dealer in nearly every county in 42 states.

Write Us For Free Majestic Booklet. Majestic Manufacturing Co. Dept. 21 St. Louis, Mo.

um 36-38; large 40-42; extra large 44-46 inches, bust measure. Size medium requires 3¾ yards of 36-inch material. Price 10c.



No. 2940—Girls' Dress. Cut in four sizes, 8, 10, 12 and 14 years. Size 10 will require 4¹/₄ yards of 30-inch material. Price 10c.

No. 2951-Girls' Dress. Cut in four sizes, 6, 8, 10 and 12 years. Size eight requires 3¹/₄ yards of 36-inch material. Price 10c.



No. 2819—Child's Dress. Cut in No. 2720—Ladies' House Dress. Cut three sizes, 2, 4 and six years. Size is seven sizes, 34, 36, 38, 40, 42, 44 and four requires 2¾ yards of 36-inch ma-6 inches, bust measure. Size 38 re-terial. Price 10c.

quires 6¼ yards of 36-inch material. Width at lower edge is 2¼ yards. Price 10c. No. 2785—An "Easy-to-Make" Apron. Cut in four sizes: Small 32-34; medi-the trousers. Price 10c.

plies which their members need.

they have conveyors which will load

this warehouse to bring the floor to a

The Banks Township Association,

located in the town of Ellsworth, is just

completing the finest warehouse in the

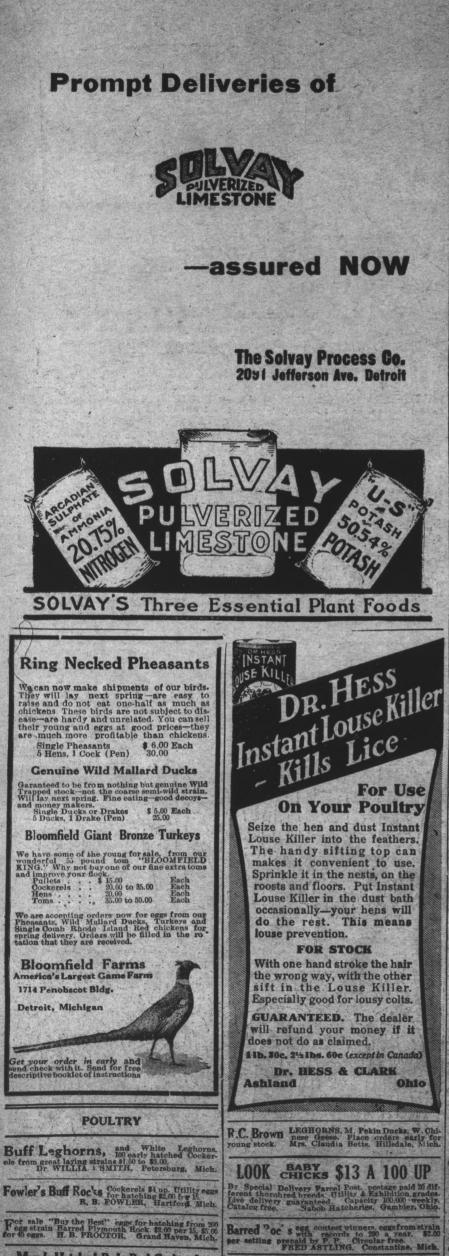
state. The building is 45x130 feet. The first floor is split stone ten feet

high and the second is vitrified tile

with pressed brick corners. The roof

projects over the sides to protect men

plete this part of the grade.



March Hatched R. I. Red Cockerels Both Combs. Write for prices and order early. Interlakes Farm. Box 59, Lawrence, Michig

Barred Roc'rs Exclusively. Baby chicks all sold our customers. Order early for next reason. F. H. Plance. Language

when they are unloading during bad weather. The floors are of concrete. An office which will seat one hundred and fifty men is provided. A part of the third story is a bean-picking room with fifteen bean pickers in it. The equipment also includes a power elevator for feed and freight, a beancleaning machine which is worth \$600, plenty of floor scales, trucks, etc. The basement floor will be on a level with a car floor when the car is setting on the sidetrack, which makes loading very handy.

The association at Central Lake was very successful and the buyers who ity of all of the produce which they were competing with the association paid as high as one dollar per bushel for potatoes last fall, which put many is a credit to the exchange and to hundreds of dollars in the pockets of themselves. The reputation of the the farmers of that community. This association came through the year in fine shape, with a balance in the treasury of \$2,500 which they used to buy farmer after doing his own business another warehouse from one of their soon realizes the benefits of quality competitors, so this association is op- production and a reputation which is erating two warehouses instead of one as last year. They handled everything While the market season of 1919 the farmer produced and needed. On and 1920, is just beginning we have one car of flour they were able to sell instances which prove that the Michit to their members cheaper than any igan Potato Growers' Exchange is of the grocery stores could buy it at more efficient than it was last year. wholesale.

their membership and make it \$20 af- bushel for apples more than the farmter the first of October. Many new er was getting who sold to the commembers are joining. They did a bus mon buyers. Potatoes were sold by iness of over \$75,000 in less than nine the exchange and netted the farmer months and brought much business in- sixty-five cents per hundred more than to the town.

warehouse last fall 40x100 feet, made town. of double cement blocks, which cost Of all the work which the Farm Buthem \$6,000. They also did a business reau has done in this county, we feel of over \$75,000 and are taking in new that the organization of marketing asmembers daily. This warehouse is the sociations has been the greatest. busiest place in town and is doing all

feet and all on a sidetrack with two the apples of J. C. Fraleigh, of Kent other buildings, one 30x80 and the oth- county, Michigan, were awarded the er 40x60 feet, so they have plenty of highest honors. He received four first room to do all kinds of business and and three second prizes.

(Continued from page 373). have been handling everything for the While the Elk Rapids Association past year. Their business was well only handled potatoes last year, they over the \$70,000 mark and with a nice have now purchased a cement block balance on the right side of the book. building sixty by two hundred feet and This association is also handling coal are fitting it up for the handling of and has storage for unlimited quantieverything the farmer raises. This as- ties of baled hay.

Farmers' Marketing Organizations

sociation will also purchase all sup- Alba Association built a warehouse last fall which will store 40,000 bush-They have purchased \$1,700 worth els of potatoes and is 40x100 feet. of power graders and conveyors. After They are doing all kinds of business the potatoes are run over the grader for the farmers and have been excepthey are elevated onto a conveyor tionally successful in handling live which runs the length of the ware- stock, veal and cream. They came house and the potatoes are dropped through the first year with a balance through canvas shoots in the bin. of \$1,900 in the till and are making Where they load a car with potatoes rapid gains in membership.

The success of these associations is bulk potatoes, and another which will due in a large measure to the plan of load the sacks directly into the car. organization and the well-founded fed-One hundred feet of this warehouse eration which they are in. All of the will be used for potatoes and the rest members of any local are also memfor the handling of cream, beans, etc. bers of the 'Michigan Potato Growers' The members of this association Exchange and this Exchange, acting have loaned the money to the associa- as the selling agents and purchasing tion to buy and equip this warehouse. agents for the locals is one of the These members have taken the asso. strong features of the whole organizaciation's note for the amount loaned tion. This exchange has a purchasing at seven per cent interest and which power that is not equaled in the state will be paid by the association to the by any concern and they are able to members on or before 1925. The mem- save any member or local a large per bers also donated about \$1,400 worth cent on all purchases as well as to get of work in filling three feet of sand in more for the things he has to sell. This exchange in the past two weeks grade for the sidetrack. One day there has purchased more than \$25,000 worth were ninety-three men and twenty- of supplies for the locals and are inseven teams working there to com. creasing the amount of purchases week by week.

In the selling of other crops besides potatoes the exchange has a volume of business that enables them to sell to the last man or to the exporter, where they get for the farmer member the same price which the largest dealer in the United States could get after the product had passed through several hands. So you can see the advantage which any member of the associations has over a non-member

The farmers of Antrim county appreciate this movement and the steps which they have taken for the advancement of their conditions in markets will never be regretted.

They have the faith and confidence in their ability to do their own business and they are alive to the improvement of the quality of the product which they are raising and putting on the market. They have standardized their potatoes and are all raising the Petoskey Golden Russett. The qualare putting on the market through the Michigan Potato Growers' Exchange products marketed by the exchange will be worth millions to the farmers of Michigan in the next few years. The great asset. a

They have been able so far to return They voted to double the price of to its members seventy-five cents per the farmers who were not members The Bellaire Association built a new received on the same day in the same

the business for the farmers. At the tenth annual show of the Mancelona Association purchased a National Fruit Growers' and Ship-warehouse last fall which is 40x220 pers' Association, held in Milwaukee,

NEW IDEAS IN POULTRY FEEDING.

(Continued from first page). largely in milk, eggs and the green leafy parts of plants. Now milk and green foods are readily obtainable in many places for the use of poultry. To some extent eggs may be used, too, especially those which have been tested out of incubators in the spring as infertile. As a matter of fact, though, eggs do not seem at all necessary where milk may be obtained. The three feeds mentioned, however, are sometimes described as protective feeds because they make up to a large extent whatever deficiency may exist in rations composed of seeds, root crops and beef scraps, which are the rations most commonly depended upon by the poultry keeper.

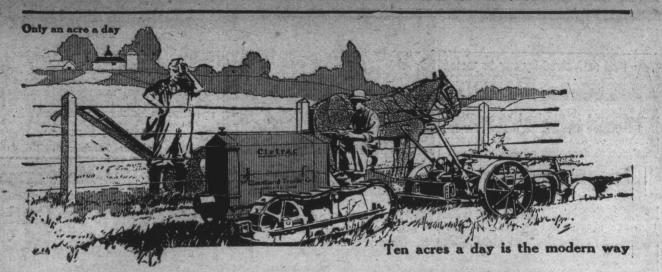
In order to test out the theory with a suitable check, Professor Harry R. Lewis, of the New Jersey Agricultural College, adopted the new plan for feeding to pullets raised at Vineland, New Jersey, where a notable egg laying and breeding contest has been carried on. At the same time he followed conventional methods at the Experiment Station of the State College at New Brunswick. Now some difficulties were encountered at the Vineland Station because it is not an easy matter to grow green food in the sandy soil of southern New Jersey. Fortunately it became possible to utilize a field of luxuriant alfalfa seven acres in extent. This field was simply used as a growing range, the chicks wandering over it and harvesting their own green crop. The number of chickens was not large enough to kill out the alfalfa, which continued to grow and furnish an abundance of fresh, tender leaves all season. Thus the first of the three ingredients advocated by Dr. McCollum for the proper nutrition of young animals was found. It happens, however, that the southern part of New Jersey boasts but few cows, with no dairies from which anything like an adequate milk supply might be secured. There remained, however, the possibility of substituting some form of condensed milk, and Professor Lewis chose a semi-solid buttermilk, which is now on the market and being distributed in barrels from several different centers.

Infertile eggs were used to the extent to which they could be obtained, but Professor Lewis seems to think that they can readily be dispensed with when milk is available.

Now for the comparisons. Chickens at Vineland fed by the new method made a much more rapid gain in weight than those at the other stations and reached maturity two or three weeks earlier. This means that they matured considerably earlier than chickens the country over, even on the most up-to-date plants. The mortality was very low. The chicks were raised in coal burning brooder stoves in 10x12 colony houses, three hundred chicks to a house. Over seventy-eight per cent of all the chicks placed under the brooders came through safely. From the time they went into their brooding quarters until they were three months old, they had an abundgrowth was maintained throughout the growing period. When the chicks were twelve weeks old, the sexes were separated and then the increase in weight of the pullets was even more noticeable.

In summing up his conclusions at a recent convention, Professor Lewis said: "There are very definite lessons which we can draw from these modern discoveries in their application to poultry raising, the effect of which has been carefully checked up in the rearing work at Vineland and

(Continued on page 397).



Which side of the fence are you on?

Are you a one acre laborer-or a ten acre farmer?

Do you cling to old, slow, out-of-date animal laboror are you farming the modern way with the Cletrac?

The Cletrac Tank-Type Tractor enables you to do more work and better work more days in the yearwith fewer men, shorter hours and less expense.

It produces larger and better crops at a lower cost thus materially increasing your profits.

Itplows, harrows, plants, reaps, binds, threshes, cultivates, hauls, saws-does practically all the things that your horses, mules and stationary engine used to do-and does them better, cheaper and faster -requiring considerable less man labor to accom-

The Cleveland Tractor Co. 19021 Euclid Avenue Cleveland, Ohio Largest producers of tank-ty rs in the world TANK-TYPE TRACTOR (Formerly known as the "'Cleveland Tractor")

plish the same amount of work. You-or your wife -or your boy, can operate the Cletrac and do as much work with it as was formerly done by three men and three teams.

The Cletrac runs on metal tracks like a locomotive. It goes over the top of the ground,-doesn't sink in, doesn't pack down the earth even when it is freshly plowed. No power is wasted in moving the machine itself through the soil.

> The Cletrac is the answer to the acute farm labor question. Call on the nearest Cletrac dealer and look it over carefully.

Send for our booklet "Selecting Your Tractor." It is full of good, sound, practical information that every farmer should h.ve.



earling Pullets--200 S. C. White Leghorns number of our other breeds as given in sultry circular. Poultry circular. Cockerels-Barred Rocks, White Rocks, Buff Rocks, Rhode Island Reds, White Wyandottes, White Orph-ingtons, B. O. Black Minoress, S. O. and K. O. White and Brown Leghorns, Anconas. Guineas, Ducks, Geese-White Pekin, Gray Toulonse. Turkeys-Bronze, White Holland, Bourbon Réds. Rabbits-Belgians, New Zealands, Rufus Reds, Giants. Please send for circular on Fall Sale of Poultry with price list.

ning, R2 P Single Comb White Leg

Eggs from pen 1, \$3.00 per 15, 0 per 15. Incubator eggs \$7.00 per B. W. MILLS, Saline, Mich.

Philadelphia

\$2.00 and up

POULTRY

oreas. n 2,\$2.00

S. C. B. Mine

STATE FARMS ASSOCIATION, Kalamazoo, Michigan

The Premo Jr. Model B is a well-made, substantial, reliable camera in every respect. This camera has to stand the usual rigid tests which are stand the usual rigid tests which are applied to all cameras made by The Eastman Kodak Company. It loads and unloads in daylight with the Pre-mo Film Pack of twelve exposures. It makes pictures $2\frac{1}{4}x^{3}\frac{1}{4}$ inches in size and the negatives are of such quality that excellent enlargements can be made from them.



The instrument is fitted with an auwell equipped a camera as could be wished for in the box type. It will pro-duce first-class results in all ordinary duce first-class results in all ordinary amateur photographic work, such as snapshots in good light, time expos-ures, home portraits, landscape and street photography, and the like. This camera is unusually simple to load and operate. A complete book of instruc-tions is included with each one, and even a schoolboy who never had a camera in his hands before, can make good pictures with the Model B Premo Jr. within half an hour after getting it. Sent charges prepaid for three sub-scriptions, or for one subscription and scriptions, or for one subscription and \$1.25 additional. The Michigan Farmer, Detroit



NEW IDEAS IN POULTRY FEEDING.

(Continued from page 395). New Brunswick.

"First. Give the growing chicks an abundance of green rations, preferably alfalfa and clover.

"Second. Feed milk liberally as a beverage early in the growing period. "Third. Never let the infertile eggs from the incubator go to waste-boil them and feed to the chicks during the brooding period."

Poultry keepers have long recognized the value of green food both for laying hens and for growing chickens, but have never understood the reason, or been as conscientious in providing green stuff as they would have been had they been familiar with Dr. Mc-Collum's findings. Very often root crops are considered a substitute for green foods, but apparently they do not contain the same materials as tender young leaves and are very much less desirable except as they provide minerals and bulk. There are few poultry keepers who cannot give their growing chickens an abundance of leafy growth and it is the young stock which needs it most. It takes only a small amount of ground to grow a bountiful crop of rape. Swiss chard, too, and New Zealand spinach can be produced even in a very small garden, as the plants renew themselves when the leaves are removed. Then in the fall rye can often be sown in the garden and the maturing pullets allowed to feed upon it. Of course if a field of clover or alfalfa is available for the young stock to run in, an ideal condition is found.

The question of milk is not so easily solved. Yet there are hundreds of farms where there is a surplus of milk at just the time when the growing chickens need it most. Perhaps in many instances it would pay to turn this surplus into chicken flesh, or to make butter and feed the buttermilk to the young stock. For the poultryman who has no cows to fall back up on the commercial milk product such as is being put out in a solid or semisolid form offers a practical substitute.

At the present time the poultry world is in a stage of evolution. New ideas are coming to the front rapidly, perhaps because the stress of circumstances is serving as a spur to invention or ingenuity. Until very recently the idea of using electric lights in the poultry house to increase egg production in winter was laughed at, but now the plan is being adopted widely, and the results justify the moderate expense required to equip a poultry house with electric lights or with large kerosene lanterns of the modern type when electricity is not available.

Massachusetts. E. I. FARRINGTON.

FEW FINISHED STEERS OFFERED.

CATTLE marketings are running to rather plain grades. The supplies are carrying a lot of medium quality short-fed offerings and very few finish ed lots. The lack of quality in the arrivals has caused a wider price range to be put in force-with the prime yearling classes on the top. Weight was for this reason that many feeders decided to get away from the heavy grades because they found that the cost of production was too high to take a chance on the unsettled markets. With the native offerings running to such poor quality and the western range stock being marketed freely, the plainer grades have been relatively weak sellers. W. W. F.

Many preventive measures of controlling soil washing, such as crop rotation, deep plowing, maintaining organic matter in the soils, etc., have been advocated, but there is nothing that equals terracing or "contour farming," as it is sometimes called.



R. 5, Mason, Michigan.

Additional Stock Ads. on Page 399



- No. 4 yellow..... 1.51 No. 5 yellow..... 1.50
- OATS.

RYE.

This grain enjoys a firmer market with the price advanced over last week's quotations. At Detroit cash No. 2 is now quoted at \$1.41 a bushel.

BARLEY.

Following last week's heavy de-crease in the visible supply of this grain, another decline of 230,000 bush-els is noted. The local price, however remains unchanged, with cash No. 3 held at \$2.40@2.50 per cwt.

BEANS.

BEANS. Trade in beans has ruled very dull throughout the week, with the general situation little changed from a week ago. There is continued absence of any export demand, and no specula-tive activity. Michigan choice pea beans are quoted in New York at \$8.25 (08.50 per cwt., and do common to fair \$7.08. At Detroit the recent dullness continues, with the reported quotation for immediate and prompt shipment at \$7.50 per cwt, or ten cents below last week's price. week's price.

FEEDS.

Middlings are higher, with the other grades steady as compared with last week. Bran \$44; standard middlings \$56@57; fine middlings \$64; coarse corn meal \$64; cracked corn \$65; corn and oat chop \$55 per ton in 100-pound sacks

The markets in this edition were re-vised and corrected on Tuesday after-noon, September 23.

moderate. Round whites sell there at \$3.10 per cwt. in bulk. The Philadel-phia market is firm while trading in New York is easier and prices slightly lower.

CHEESE.

The general market is somewhat un-certain, due to declines in prices at producing points. Increased storage holdings in our largest markets have also created an easier feeling. At De-

well. At Detroit the market is about steady with fresh creamery wholesaling at 53% c and the same grade in one-pound bricks at 55@56c. Trading in Chicago is on a higher basis with creamery stock ranging from 47@57c. In New York a firm trade is reported and creamery prices are from 52@60c per pound. In Philadelphia western creamery extra is quoted at 61% contained to the same as for a year ago. **DETROIT CITY MARKET** The tomato market is rapidly coming to a close with the best stock at the same as for a top of the same as EGGS.

ECGCS. The changes in the egg markets have been only moderate. Some de-crease in receipts is noted, while of-ferings appear to have a larger per-centage of defects due to warm weath-er and holding. The use of storage eggs has increased the past week. At Detroit fresh eggs are selling at 47@ 49c, according to quality. In Chicago firsts bring 46@47c; ordinary firsts 39 @41½c; storage packed firsts 47@ 48c. The New York market is firm, while trading in Philadelphia is strong with western extra firsts jobbing there at \$16.20, and do firsts at \$15@15.60.

WOOL

producing points. Increased storage holdings in our largest markets have also created an easier feeling. At De troit, however, prices remain unchang ed, with Michigan flats of June make at 33c; daisies 30c; bricks 34½c. In Philadelphia a steady market prevails at 30@32c per pound. BUTTER. A good deal of butter has been mov-ing the past week and the output ap-pears to be holding up remarkably while finer grades are above

DETROIT CITY MARKEI The tomato market is rapidly com-ing to a close with the best stock at \$1.25 and canning grades at 75c per bushel. Cauliflower is selling at \$3@ 3.50; peaches \$4@4.50; cabbage at \$1; cantaloupes \$2@2.75; grapes \$1.75@3; onions \$2.25@2.50; potatoes \$2.25@ 2.40 for No. 1; No. 2 at \$1.50; pears \$2.50@4.50; live hens 32c a pound; springers 26@30c; fresh eggs 54@55c for graded and 51@52c for mixed. **GRAND RAPIDS** The onion crop in western Michigan

for graded and 51@52c for mixed. **GRAND RAPIDS** The onion crop in western Michigan is the poorest in several seasons, be-age yield. So uneven is the vegeta-ble, buyers have not fixed any price to growers. The late apple crop is ight in some sections and in others a good yield will be harvested. The ear-ly crop has been larger than first esti-mates. Potatoes sold in the city mar-ket at \$1.50 per bushel. The price still being higher than at outside points, long hauls of 40 to 60 miles were made to this market. From Montcalm county alone 100 truckloads daily have been drawn to Grand Rap-dis the past week. Officials of the michigan Potato Growers' Association have made a survey of the big mar-ket centers for Michigan tubers and as a result has decided to market a special trade marked 100-pound sack of Michigan potatoes this year in ad-dition to the regular output of 150-bb. sacks. The select sack will be sewed with a red string to protect the Mich-igan brand. Green and cured hides which dropped 20c per pound a few weeks ago have advanced 15c. Pump-kin crop is the lightest in many years. More hogs will be marketed in west-ern Michigan this fall than ever be-fore. Price to growers is 25@26c per pound dressed. **NEWS OF THE WEEK**.

NEWS OF THE WEEK.

(Continued from page 370). ers yielded to the demands of the un-ion carpenters for \$1 an hour. bring about another war.

Sunday, September 21.

Sunday, September 21. R CPORTS through Sweden assert that the daily toll of deaths in Petrograd from chelora is 200 to 300. —Attorney-General Palmer pleads for an absolute industrial armistice for six months.—Great crowds greet Presi-dent Wilson upon his arrival in Los Angeles.—The Florida straits are be-ing combed in a search for a trace of the 450 passengers of the steamer Val-hanera, supposed to have been lost off the 450 passengers of the steamer Val-hanera, supposed to have been lost off the 450 passengers of the steamer Val-hanera, supposed to have been lost off the Florida coast.—Cablegrams from Omsk say Admiral Kolchak's offen-sive against the Bolshevist forces in western Silesla was developing suc-cessfully. — Monday, September 22.

84 bis down, medium, good, choice and prime \$12.25(m)15.25; do culls and common \$7.50(m)12; spring lambs, medium, good, choice and prime \$8.75(m)10.50; ewes, medium, good and choice at \$9.75(m)2.5; breeding ewes, full mouths to yearlings \$6.75(m)12.50; yearling wethers, medium, good and choice at \$9.75(m)2.25.
BUFFALO.
Bytember 22, 1919. Cattle.
Receipts 200 cars; heavy grades 500(m)51 lower; butchers and cow stuff 525c lower; prime heavy steers \$14(m)15; shipping steers \$12(m)12; fat cows \$7.50(m)10.50; heif ers \$8(m)12; yearlings \$12(m)15; butchers and cow stuff 51 lower; butchers and cow stuff 51 lower; butchers and cow stuff 51; shipping steers \$12(m)15; cutters \$6(m)6.50(m) canners \$4.50(m)5; best feeding steers \$9(m)10; medium feeders \$14(m) feeders \$10(m)12; fat cows \$7.50(m)8.50; light or strikers follow rioting in the Pittsburgh zone. The United Mine Workers of Mamerica reject the movement for go out on a sympathetic strike with the seel workers. She Italian government appeals to the allied powers to drive D'Annunzio out of Fiume. The anadian and United States governments are soon to consider improving navigation on the St. Lawrence river.
The Eaton County Farm Burean will

The Eaton County Farm Bureau will hold a tractor demonstration on the farm of Bertrand Youngs, two and a half miles west of Charlotte on Fri-day, October 3. The dozen tractors entered will demonstrate on twenty-five acres of sod land.

Live Stock Market Service

Reports for Tuesday, September 23rd

BUFFALO.

This market sold pigs at from 25@ 50c below yesterday's trading, and other grades from steady to 10c high-er. Lambs were 50c lower while calves went at \$22.

DETROIT

Cattle.Market steady at last week's close.Best heavy steers\$12.00@13.00Best handy wt bu steers...9.50@11.00Mixed steers and heifers8.50@9.00Handy light butchers6.00@7.25Best cows8.25@9.00Butcher cows6.75@7.50 6.75@ 7.50 6.00@ 6.25 Butcher cows Canners Best heavy bulls Bologna bulls Stock bulls Feeders Stockers 5.00@ 5.75 8.00@ 8.50 7.00@ 7.50 5.50@ 6.50 5.50@ 6.50 8.50@ 9.50

Hogs. Market steady.

CHICAGO.

and oat chop \$55 per ton in 100-pound sacks. **SEEDS** There is a good demand for seeds, and the market holds steady with the volume of business increasing. Quo tations are: Prime red clover \$29.25; October \$29.35; alsike \$24.75; timoth \$5.50. **Hary** Thay is steady with the following quota-tions: No. 1 timothy \$29.50@39; stan-dard and light mixed \$28.50@29; No. 2 timothy \$27.50@28; No. 1 clover at 24@25. Tittsburgh.—Values here have de clined during the week, notwithstand-ing small receipts and a fair demand. **Hogs. Hogs. Testimated receipts today are** 23.000; **hogs. Testimated receipts today are** 12.000; **Cattle. Testimated receipts today are** 12.000; **Market fairly active and firm on all hogs. Testimated receipts today are** 12.000; **Cattle. Testimated receipts today are** 12.000; **Market fairly active and firm on all hogs. Testimated receipts today are** 12.000; **State fairly active and firm on all State fairly active and firm on all State fairly active and firm on all State fairly active and firm on all State fairly active and firm on all State fairly active and firm on all State fair to good \$18@21; grassers State fair to good \$18**

\$15.25@17.65; do medium and good \$10.75@15.25; do common at \$8.25@ 10.75; light weight 1100 lbs down, good and choice \$14@17.65; do com-mon and medium \$8@13.75; butcher cattle, heifers, common, medium, good and choice \$6.50@14.75; cows, com-mon, medium good and choice at \$6.25 @13.35; bulls, bologna and beef \$6.50 @11.50; canners and cutters, cows and heifers \$5.35@6.25; do canner steers \$5.75@8.25; veal calves, light and handyweight, medium, good and choice \$20.25@21.50; feeder steers, common, medium, good and choice \$7@12.25; stocker steers, common, medium, good and choice \$6@8; stocker calves, com-mon, medium, good and choice \$8@ 10; western range cattle, beef steers, medium, good and choice \$10.75@15; do cows and heifers, medium, good and choice \$7.50@13.
Sheep and Lambs. Sheep and Lambs.

7.00@ 8.50



thru ONE register WARMair rises—cold air descends. In the Estate Heating System the warm air rises through one register and cooled air descends through separate intake pipes.

In this respect the Estate Single **Register Heating System differs** radically from the ordinary "pipe-less" furnace. There is no conflict between the warm air going up and the cooled air coming down.



three sections. The center section is for warm air coming up from the furnace -the two outer metted with in-take pipes which carry cooled air back to the fur-nace, to be re-.)



nace, to be re-" heated, moistened, and sent up through the warm air register. This system insures constant and thorough circulation of warm air which heats the entire house—upstairs

Compare this with your own breathing

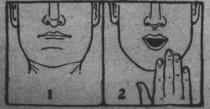
(1) Take a deep breath of cold air through your nose, the mouth being closed. Hold it.

(2) Open your mouth, hold your hand in front of it, and exhale. Note the warmth of the air you exhale.

The warm air register is the mouth, the two intake registers the nostrils of the Estate Single Register Heating System. The principle is exactly the same as in Nature's own circulation system.

ands of delighted users prove the de-pendability of this heating system. Send postal for booklet and full information

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about ceased and that the demand for tory. The most noticeable feature is pork is slackening while in the Unit- the abundance of stock that is stored pork is slackening, while in the Unit-

prices of cattle to the farmers, while Eggs.—Receipts of eggs have con-increased production is demanded in tinued about as for last week. The order to bring the scale of prices to a lower level. This is the problem which is puzzling the packers, they as-sert, and how to stimulate production ers have started to use their storage

sert, and how to stimulate production and cut prices at the same time is be-yond them. Resolutions were adopted against the proposed license of packers under two bills pending in congress. The in-stitute, in its resolutions, invited the fullest investigation and offered to co-operate in every way in the investiga-tion now being made in Chicago by the federal department of justice stitute, in its resolutions different to co-operate in every way in the investiga-tion now being made in Chicago by the federal department of justice stitute, in its resolutions, invited the ton now being made in Chicago by the federal department of justice stitute, in the stime stime started to use their storage supplies in order to get enough high quality eggs for their trade. There has been only a slight change in quo tations are as follows: Firsts 48@52c; extra firsts 53@55c; extras 56@58c. Poultry.—Receipts of live poultry have continued about normal. Trad-ing has been active throughout the week and the price tendency has been upward, especially for spring chickens

FRUIT MEN OPPOSE RAISE IN RE-FRIGERATOR CAR RATES.

HE fight which the New York state fruit and vegetable growers are waging against the contemplated raise in tariffs for the use of refrigerator cars, is one in which growers of perishable products in Michigan and other states are deeply interested.

If the government succeeds in making effective this advance in rates, it will cause an increase of upwards of \$2,500,000 in the annual cost of handling the state's fruit crop, and a proportionately large increase in transportation of fruits and vegetables from the farm of other states to the city markets.

At the recent hearing of the Inter PEAS state Commerce Commission held recently in New York City, the fruit interests introduced such conclusive evidence against the increase, that the hearing was adjourned for the securing of further information in regard to the matter.

It is claimed that the government not only wishes to increase its rate of charge for the use of refrigerator cars but also would make additional charges for every incidental movement of the car and for its icing. Under the government's proposed arrangement the shipper would not be allowed to look after the icing of the car himself. The fruit men consider such an in-

crease in rates an imposition upon the consuming public who would be the real bearers of the added burden. The federated agricultural and shippers' associations are raising funds to continue a vigorous campaign in opposition to the proposed refrigerator car rate increase. E. E. R.

NEW YORK PRODUCE MARKET.

Butter.-Receipts of butter have con-tinued high during the week but they thue high during the week but they have included a great quantity of but-ter that was purchased by exporters in the central west and which has been shipped to this port to be stored in local refrigerators until shipping space becomes available on ocean-go-The production of small ing vessels. creameries continues to shrink and it is fully expected that it will continue is fully expected that it will continue to do so for some time to come. The market has been active throughout the week, but only on high quality but-ter. There is no demand for inferior grades of butter and they are continu-ing to accumulate to an alarming de-gree. There are many cars of 88-89 score butter, principally centralized, in various warehouses which cannot be moved at prices at all satisfactory to receivers. There is practically no new export demand although occa-sionally there is an inquiry. It is inti-mated that we may expect a renewal of export trade in the very near fu-

PACKERS URGE CONGRESS TO PROBE MEAT INDUSTRY. C ONDITIONS of the food markets tute of American meat packers, in ses-sion recently at Atlantic City, that the demand for beef from America for meeting the shortage in Europe has about ceased and that the demand for

pork is slackening, while in the Unit-ed States the agitation against the packers has caused a slump in the consumption. The effect has been to break the price of cattle and the reduction in the rices of cattle to the farmers, while the abundance of stock that is stored in public warehouses in Chicago, Bos-ton, New-York and Philadelphia as son last year. Bureau of Market fig-ures show that there are approximate-ly ten millions of pounds more of cheese stored now than one year ago.

tion now being made in Chicago by week and the price tendency has been the federal department of justice through the federal grand jury, FRUIT MEN OPPOSE RAISE IN RE-

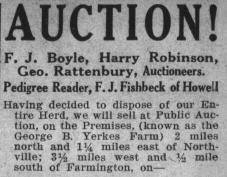
Mr. POULTRY FARMER: We make a specialty of White Hennery Eggs and have created a profitable market for your eggs the year around. We pay the highest premium for yous Hennery Whites-We remit same day shipmentr arrive. Ship Often-Ship by Express GEO. R. ELDRIDGE CO. 494-18th Street, Detroit, Mich. aber? We guarantee you satisfaction with every shipment **EGGGGS** We will pay 56c per doz-en delivered here for strictly fancy newlaid egs, cases included. Shipments via express direct from farmers. This price good until American Butters & Cheese Company, Detroit, Mich. Ship To The Old Reliable House Daniel McCaffrey's Sons, 623-625 Wabash Bldg.: Pittsburgh Pa. HAY Send us samples of your clover seed, peas and beans of all kinds and state your price cleaned or uncleaned. W. L. IRELAND & CO., Grand Ledge, Michigan SEED BEANS FOR SALE: A few cars alfalfa hay. Choice of first and second cuttings. Write or call W. N. Lister, Ypsilanti, Mich. Wanted sirl for general housework. Small home, three in family. Must do wash-ing. Mrs. M. P. Fisher, 619 Continental Ave., Detroit HOGS. O.I.C. One very choice 9 months old boar and (689-8). Glenwood Stock Farm, Zeeland, Mich. O. I. C. and Chester White Swine Strictly Big Type with quality. Spring pigs of March and April farrow. A choice lot of boars. Will only spare a few more glits at present. Will ship C. O. D. and record them free. Newman's Stock Farm. Marlette, Mich. R. No. 1. O. I. C's. Bred gilts all sold. Plenty of spring F. C. BURGESS, R. 3, Mason, Mich. 0. 1. C's One very good yearling boar, and this spring pigs to offer, registered free. ¹/₂ mile west of Depot. Citizens Phone 124. OTTO B. SCHULZE, Nashville, Mich.

O. I. C. '20 Choice Young Clover Leaf Stock Farm, R. 1, Monroe, Mich. O. I. C's. 6 fine spring boars, 4 gilts and two sows, Wilk, R. 2 Alma, Mich,

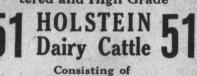
For Sale One choice reg. O. I. C. Boar 17 months culars write Bert Gilbert Livering, Mich. R.2



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21 Registered Holsteins, Cows and Heifers and 30 High Grade Cows.

The cows are practically all in full milch or near springers. Part of the heifers are bred to freshen this fall.

These Cattle are all in Good Physi-cal Condition and Free from Abortion. This is an exceptionally fine herd, be-ing one of the Largest Milk-Producing Herds in Oakland County. The Regis-tered Cattle will all be Tubercular Tested.

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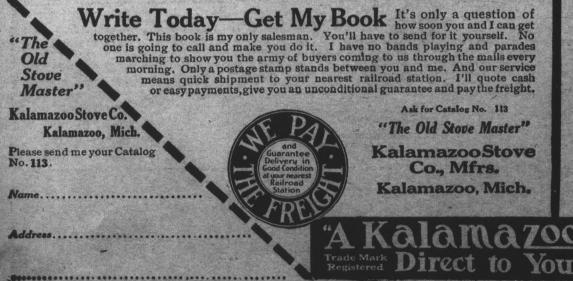
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Old

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Kalamazoo Kitchen Kabinet All metal, White enameled. A won-der of a kitchen kabinet — a real beauty in desigg, construction and finish; built for lifetime service.

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Heats the entire house through one register. Easy to in-

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